ORDER No. AD9912266S0

A6

Service Manual

Amplifier

SE-HD505MD

Areas

PP.....U.S.A. and Canada.

E.....Europe.

EB.....Great Britain.

EG.....Germany and Italy, etc.

EP.....East Europe.

GH..... Hong Kong.

Change of Capacitor(C303)

Please file and use this supplement manual together with the service manual for / Model No. SE-HD505-PP,E,EB,EG,EP, Order No. AD9904110C5. / Model No. SE-HD505-GH, Order No. AD9909215A3. /

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. Purpose

This supplement is intended to provide the following information to the / Service Manual above:

- Replacement Parts List

2. Replacement Parts List

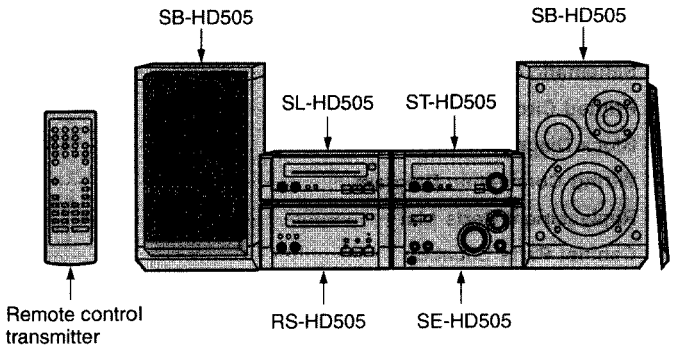
Ref. No.	Change of Part No.		Part Name & Description	Pcs	Rema
	ORIGINAL	NEW			
C303	ECEA1AKS221	ECA1AM221B	CAPACITOR 10V 220 μ F	1	CHANGE

Printed in Japan P991205750 SF/TF 99JZ6T001/991104

ORDER NO. AD9904110C5
A6

Service Manual

Amplifier



SE-HD505

Colour

(S).....Silver Type

Areas

PP.....U.S.A. and Canada.

E.....Europe.

EB.....Great Britain.

EG.....Germany and Italy, etc.

EP.....East Europe.

System: SC-HD505

Because of unique interconnecting cables, when a compact requires service, send or bring in the entire system.

Specification

■Amplifier Section (Low frequency side)	
Power Output [For (PP) area]	
40-5500Hz, THD 1%, 6Ω both channels driven:	2x10W
Power output [For (E,EB,EG,EP) areas]	
DIN 1 kHz, THD 1%, 6Ω both channels driven:	2x12W
RMS 1 kHz, THD 10%, 6Ω both channels driven:	2x15W
Total harmonic distortion	
Half power at 1 kHz 6Ω:	0.09%
Load impedance:	6Ω
S/N:	75dB
■Amplifier Section (High frequency side)	
Power output [For (PP) area]	
5500-16000Hz, THD 1%, 6Ω, both channels driven:	2x5W
Power output [For (E,EB,EG,EP) areas]	
DIN 10kHz, THD 1%, 6Ω. both channels driven:	2x15W
RMS 10kHz, THD 10%, 6Ω both channels driven:	2x8W
Load impedance:	6Ω
S/N:	75dB
Headphones	
Jack type:	3.5mm STEREO
Load impedance:	16-32Ω
■General	
Power consumption [For (PP) area]:	68W
Power consumption [For (E,EB,EG,EP) areas]:	77W
STANDBY condition	Normal:9W
	Eco:0.8W
Power supply	
[For (PP) area]:	AC120V,60Hz
[For (E,EG,EP) areas]:	AC230V,50Hz
[For (EB) area]:	AC230-240V,50Hz
Dimensions (WxHxD):	202x104.5x277mm
Weight:	3.5kg

Notes:

1.Design and specifications are subject to change without notice.

2.Dimensions and Weight are approximate.

3.Total harmonic distortion is measured by the digital spectrum analyzer.

■System/SC-HD505:

Tuner:ST-HD505, Compact Disc Player: SL-HD505, **Amplifier: SE-HD505**, Cassette Deck: RS-HD505, Speakers: SB-HD505 (Made in MAES.)

Technics®

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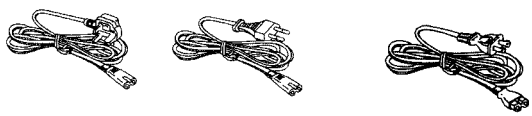
1 Accessories

- AC power supply cord·····1 pc.
  For (EB) area: (RJA0053-2X)
  For (E,EG,EP) areas: (RJA0019-2K)
  For (PP) area: (RJA0065-K)

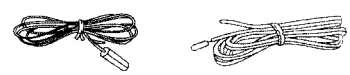


- Antenna plug adaptor·····1 pc.
  For (EB) area only: (SJP9009)

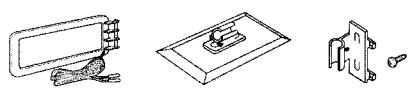
- Remote control transmitter·····1 pc. (RAK-HDA10WH)

- Remote control batteries·····2 pcs.
  【(R6/LR6 (AA, UM-3)】
  NOTE: These are available on sales route.

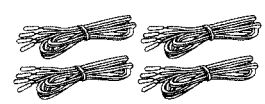
- FM indoor antenna ·····1 pc.
  For (E,EB,EG,EP) areas: (RSA0007)
  For (PP) area: (RSA0006)



- AM loop antenna set (RSA0021)
  AM loop antenna·····1 pc.
  Antenna holder with stand·····1 pc.
  Antenna holder without stand·····1 pc.
  Screw ·····1 pc.



- Speaker coards
  (REE0499)·····2 pcs. (Red . Black)
  (REE0853)·····2pcs. (Gray . Blue)



2 Before Repair and Adjustment

1. Turn off the power supply. Using a 10Ω , 10W resistor, connect both ends of power supply capacitors (C102-105, 127) in order to discharge the voltage.
2. Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 120V/230 V/240 V.

Areas	(E) (EG) (EP)		(EB)		(PP)	
Power supply voltage	AC 230V		AC 230-240V		AC 120V	
Consumed current	50 Hz	60-155 mA	50 Hz	55-145 mA	60Hz	105-305mA

3 Blue LED

- The LED mounted to each side of the front panel of this set is very sensitive to static electricity. When handling the LED base plate, be very careful about it.
- Do not replace a blue LED singly. If replaced singly, it may be subject to electrostatic breakdown or deterioration in quality. When replacing the LED base plate, be sure to replace L and R sides simultaneously to permit the brightness adjustment.

*For configuration at time of supply of replacement parts, refer to "Printed Circuit Board Diagram".

4 About the Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

*No sound is heard when the power is supplied.

*Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedande less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Press the STANDBY ⏻ /ON button, switch to STANDBY mode.
2. Determine the cause of the problem and correct it.
3. Press the STANDBY ⏻ /ON button once again, supply the power.

Note:

When the protection circuitry functions, the unit will not operate unless the STANDBY ⏻ /ON button is first switched STANDBY and then ON again.

5 Caution for AC Main Lead (For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♆ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOFóKEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

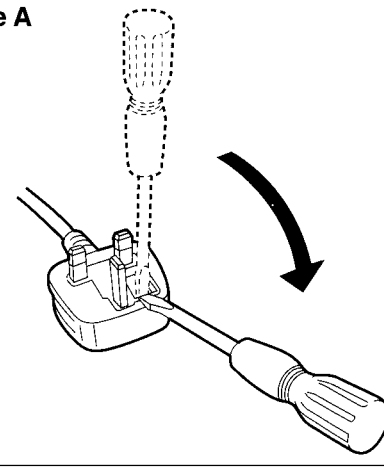
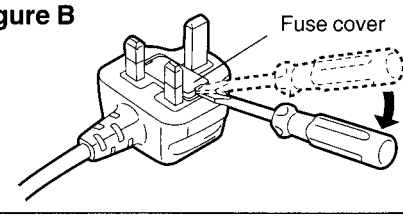


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

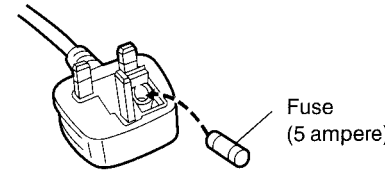
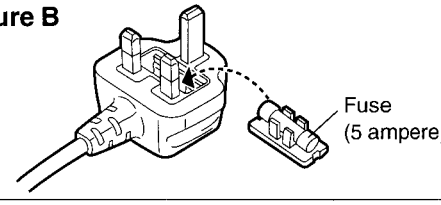
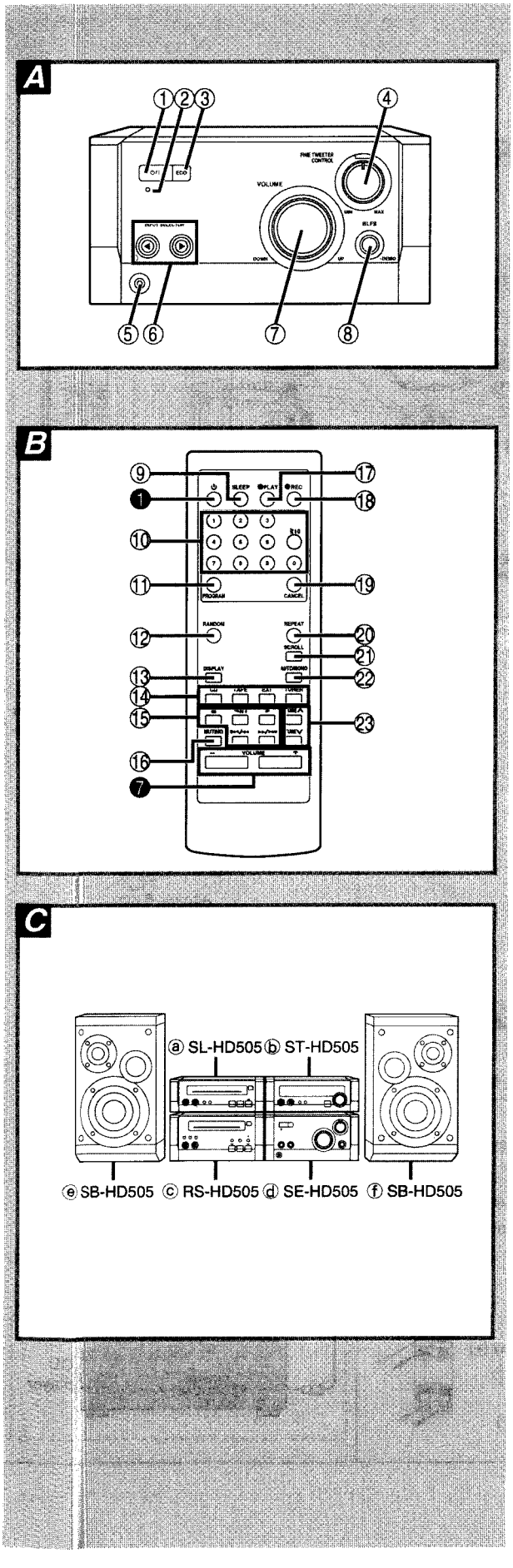


Figure B



6 Operating Instructions



Front panel controls

A Amplifier

① **Standby/on switch (⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
② **Standby indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
③ **ECO button (ECO)**
④ **Fine tweeter control (FINE TWEETER CONTROL)**
⑤ **Headphone jack (∩)**
⑥ **Input selector (INPUT SELECTOR)**
⑦ **Volume control (VOLUME)**
⑧ **Bass, demo button (BLFS, –DEMO)**

B Remote control

Buttons ❶ and ❼ function in the same way as the controls on the main unit.

⑨ **Sleep timer button (SLEEP)**
⑩ **Numbered buttons**
⑪ **Program button (PROGRAM)**
⑫ **Random button (RANDOM)**
⑬ **Display select button (DISPLAY)**
⑭ **Input select buttons (CD, TAPE, EXT, TUNER)**
⑮ **Basic operating buttons**
Function changes according to the source.
⑯ **Muting button (MUTING)**
⑰ **Play timer button (◴ PLAY)**
⑱ **Record timer button (◴ REC)**
⑲ **Cancel button (CANCEL)**
⑳ **Repeat button (REPEAT)**
㉑ **Scroll button (SCROLL)**
㉒ **FM mode button (AUTO/MONO)**
㉓ **Tuning buttons (TUNE∧, TUNE∨)**

C Installation

ⓐ CD player
ⓑ Tuner
ⓒ Cassette deck
ⓓ Amplifier
ⓔ Left speaker
ⓕ Right speaker

Note

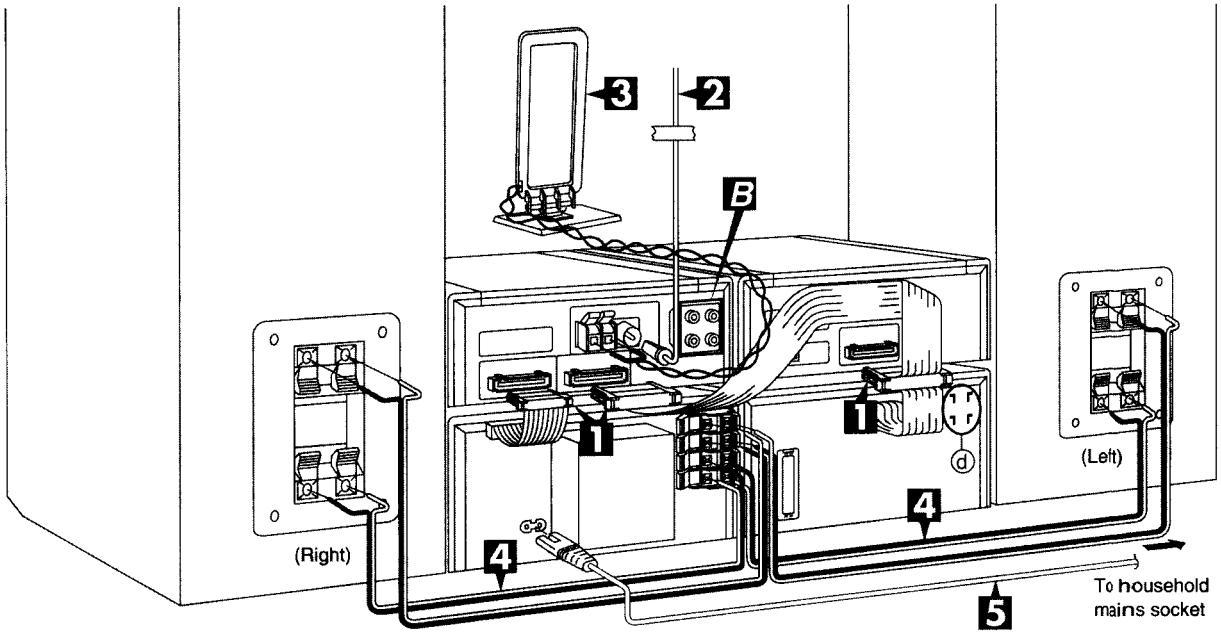
Do not put the CD player on the amplifier. Heat from the amplifier can damage your CDs.

Caution

Use the speakers only with the recommended system. Failure to do so can damage the amplifier and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
Do not attach these speakers to walls or ceilings.

These speakers are designed to be used close to a television, but the picture may be affected in some cases. If this occurs, turn the television off for about 30 minutes. The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

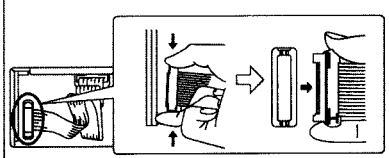
Connections



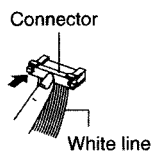
A

ⓐ

ⓑ

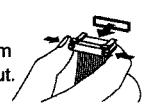


1 To connect cables



To unplug cables

Hold the connector from both ends and pull it out.



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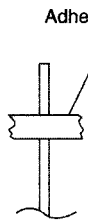

3

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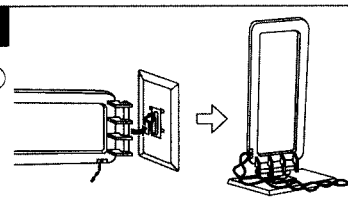

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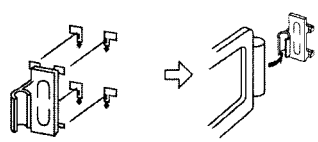

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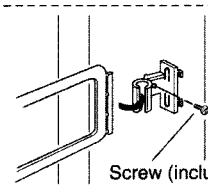

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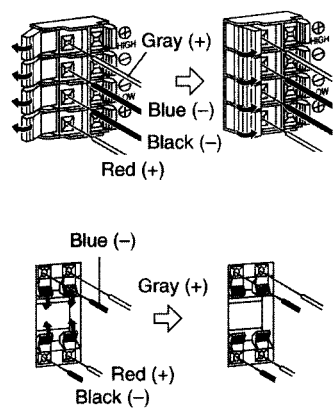
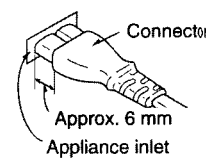


5

Insertion of connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



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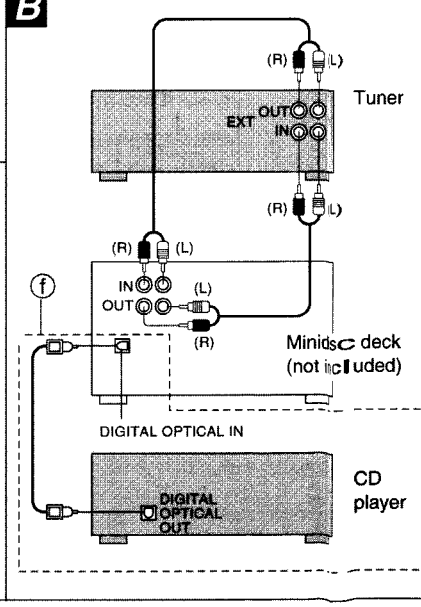


Basic connections for supplied accessories

A Before connection

Do not connect the AC mains lead until all other connections are complete.
To prepare the AM loop antenna, and speaker cables, twist the vinyl tip and pull off (ⓐ).
Disconnect the flat cable on the cassette deck (ⓑ).

1 Flat cables.

Keep the cables as flat as possible against the back of the unit.

2 FM antenna.

Fix the other end of the antenna where reception is best.

3 AM loop antenna.

Attach to the supplied antenna stand (ⓒ), or use the other holder and attach to the back of the cassette deck (ⓓ), a wall or pillar (ⓔ).

Keep loose antenna cord away from other wires and cords.

4 Speaker cables.

Connect the cables to the terminals of the same color. Never allow the exposed wires to contact each other when connected.

Use only the supplied speakers.
The combination of the system and the front speakers provides the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

(United Kingdom only)
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD BEFORE PROCEEDING TO STEP 5.

5 Connect the AC mains lead.

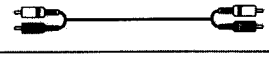
For your reference
Information you enter into the unit's memory, except for time, remains intact for up to two weeks after the mains lead is disconnected.

B External unit connections

Turn off the power to all units before making connections.
Refer to the manual of the other unit for details.
(Cables and equipment not included.)

Connect other equipment to the EXT IN terminals to output sound through this unit's speakers or to record onto the cassette deck. Connect this unit to other equipment through the EXT OUT terminals to record onto another cassette deck or to output sound from this unit through the other unit.

Stereo phono cable (not included)
White (L)
Red (R)



Connections to DIGITAL OPTICAL OUT (ⓕ):
Use an optical fiber cable to connect to a minidisc deck.
Remove the dust cap before use.

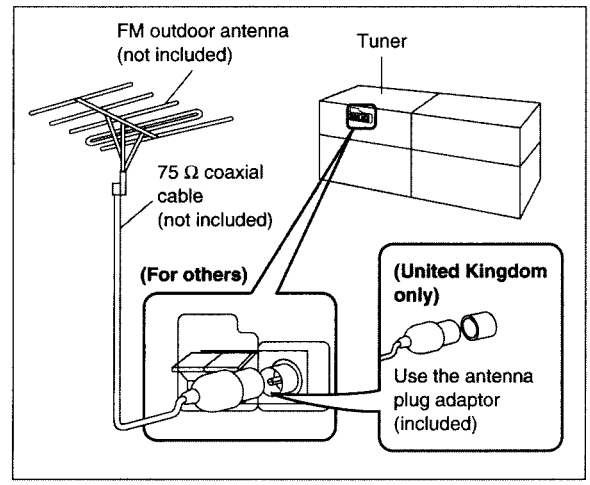
Optional antenna connections

Use outdoor antennas if radio reception is poor.

FM outdoor antenna

Note

Disconnect the FM indoor antenna.
The antenna should be installed by a competent technician.

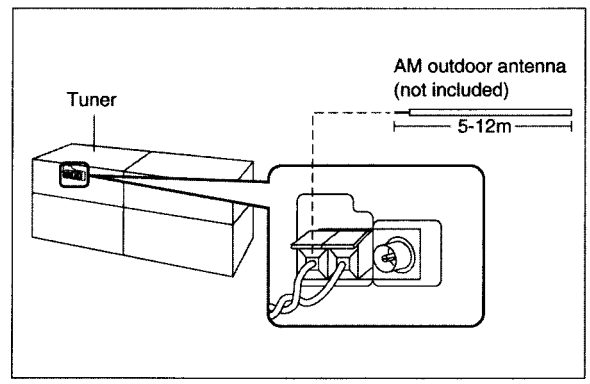


AM outdoor antenna

Run a piece of vinyl wire horizontally across a window or other convenient location.

Note

Leave the loop antenna connected.
Disconnect the antenna when the unit is not in use. Do not use the antenna during an electrical storm.



7 Operation Checks and Component Replacement Procedures

NOTE **1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**

2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

3. Select item from the following index when checks or replacement are required.

• Contents

■ Checking Procedures for each P.C.B.

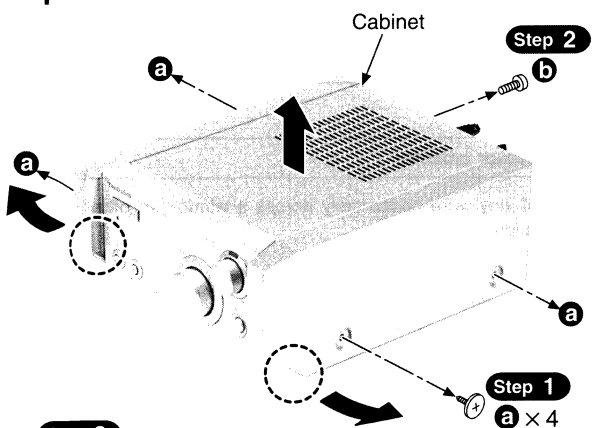
1. Checking for the power supply P.C.B. and speaker terminal P.C.B..
2. Checking for the operation P.C.B..
3. Checking for the main P.C.B..

■ Main Component Replacement Procedures

1. Replacement for the power IC.

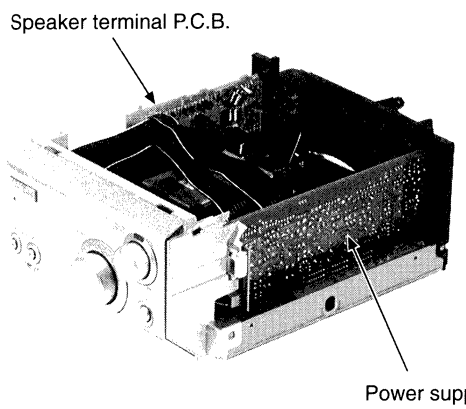
■ Checking Procedures for each P.C.B.

1. Checking for the power supply P.C.B. and speaker terminal P.C.B.



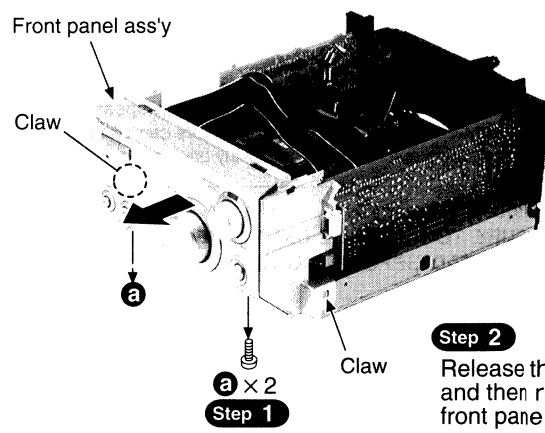
Spreading the both front tails indicated with (◌) of cabinet a small amount, lift up and remove the cabinet in the direction of arrow.

· Check the power supply P.C.B. and speaker terminal P.C.B. as shown below.



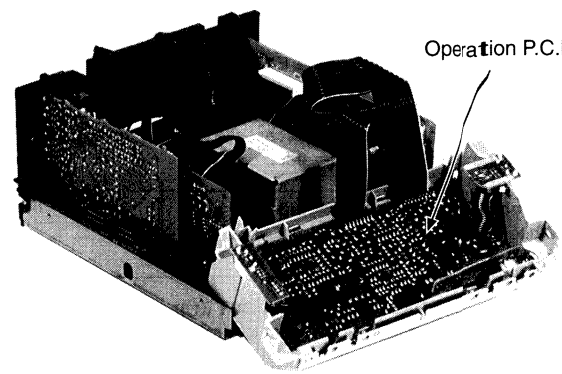
2. Checking for the operation P.C.B.

· Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B..



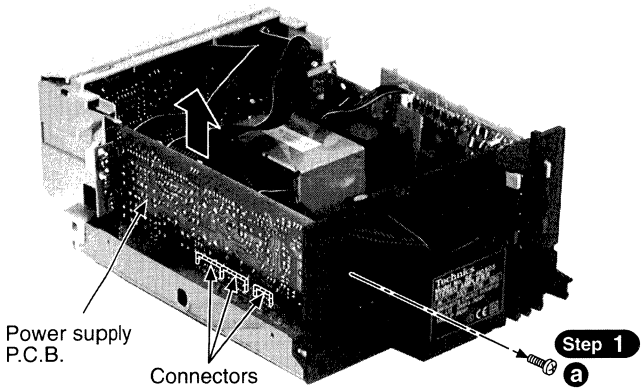
Release the 2 claws, and then remove the front panel ass'y.

· Check the operation P.C.B. as shown below.



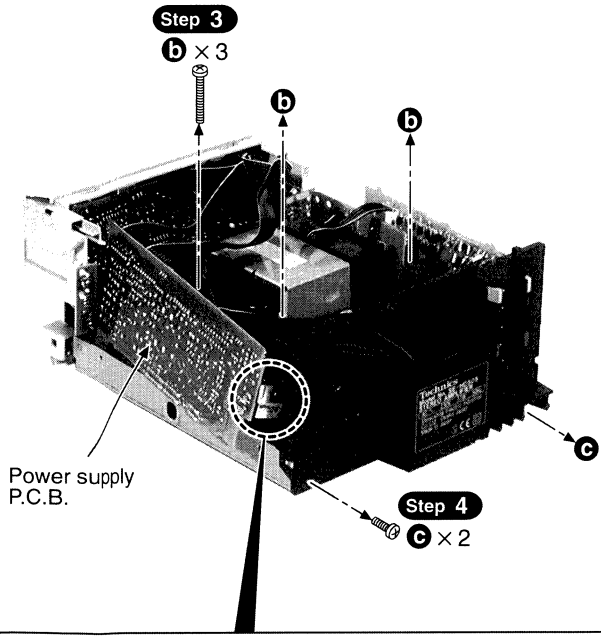
3. Checking for the main P.C.B.

- Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B..
- Follow the Step 1 , Step 2 of the item 2 in checking procedure for each P.C.B..

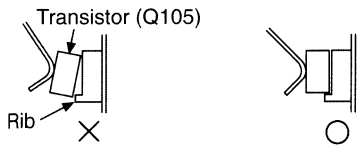


Step 2

Remove the power supply P.C.B. upward with care to prevent damage to the connectors.



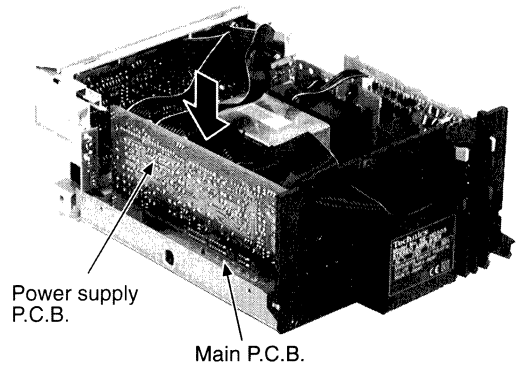
■ Notice for installation of power supply P.C.B.



1. Use care that the transistor (Q105) is not located on the rib as shown above.
2. Apply the compound grease (No. RFKX0002 or equivalent material) on the back side of transistor (Q105).
3. Use care to prevent applying the grease on the lead wire or other parts.

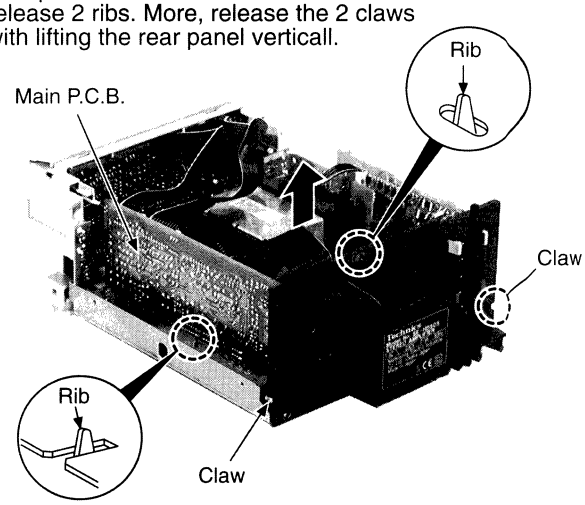
Step 5

Reinstall the power supply P.C.B. to the main P.C.B..

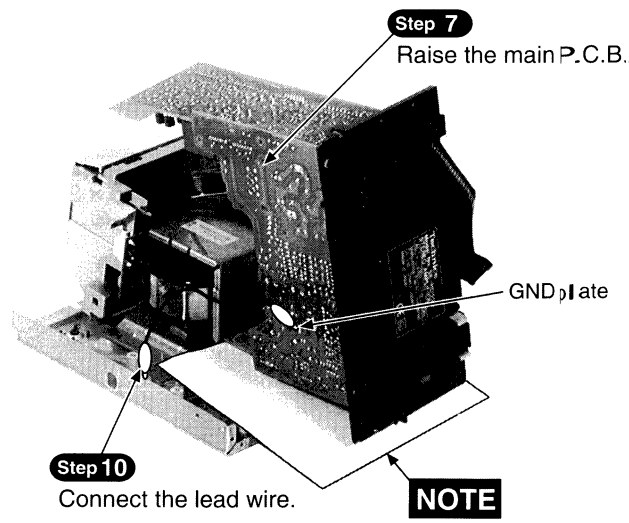


Step 6

Lift up the main P.C.B. a small amount to release 2 ribs. More, release the 2 claws with lifting the rear panel verticall.



· Check the main P.C.B. as shown below.



NOTE

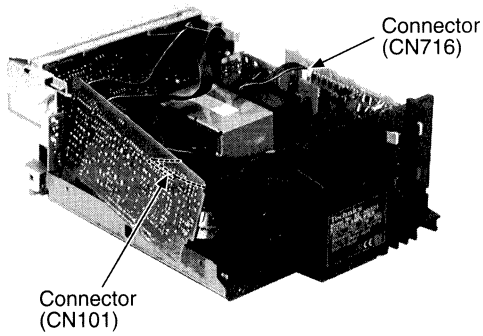
Insulate main P.C.B. with insulation material to avoid short-circuit.

■ Main Component Replacement Procedures

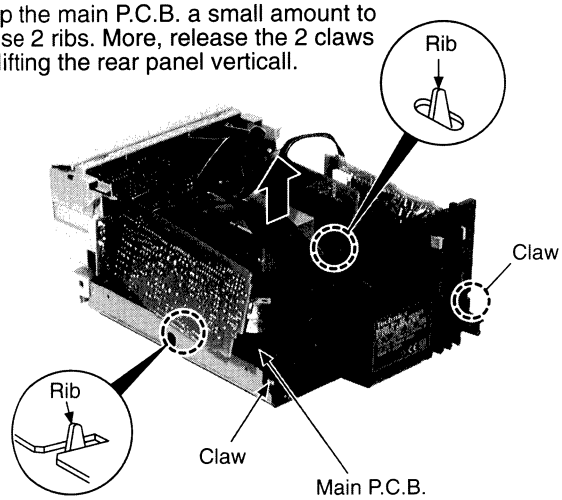
1. Replacement for the power IC

- Follow the Step 1 ~ Step 3 of the item 1 in checking procedure for each P.C.B..
- Follow the Step 1 , Step 2 of the item 2 in checking procedure for each P.C.B..
- Follow the Step 1 ~ Step 4 of the item 3 in checking procedure for each P.C.B..

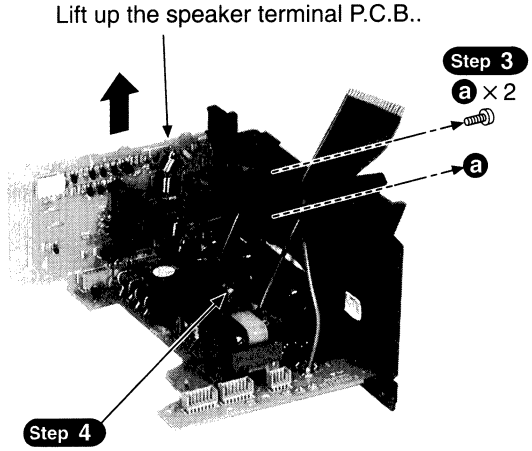
Step 1
Remove the 2 connectors.



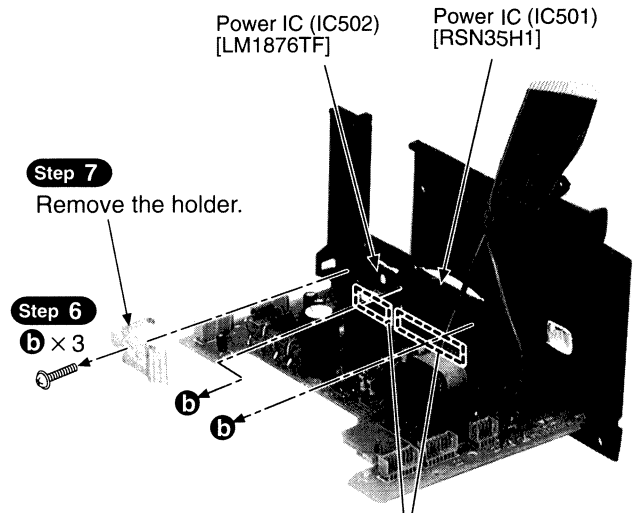
Step 2
Lift up the main P.C.B. a small amount to release 2 ribs. More, release the 2 claws with lifting the rear panel verticall.



Step 5
Lift up the speaker terminal P.C.B..



Step 4
Remove the flat cable from connector (CP701).



NOTE
When mounting the power IC apply silicone conpound (RFKX0002) to the rear side of power IC.

8 Power Source ON/OFF and Signal Check

To operate this unit SE-HD505 normally, it is necessary for connecting with the unit ST-HD505.
When operating the unit SE-HD505, be sure to connect the unit ST-HD505 by connection cable.

1. Connect with the Tuner (ST-HD505). (As shown in Fig. 1)
2. Connect the AC mains lead to Amplifier (SE-HD505). (As shown in Fig. 1)
3. Connect the speakers to speaker terminal. (As shown in Fig. 1)
4. Turn on the power of the Amplifier (SE-HD505).
5. Press INPUT SELECTOR to select the external source (EXT) of the Amplifier (SE-HD505).
6. Input a sound signal to external input terminal of Tuner (ST-HD505), and confirm to be outputted from the speaker.

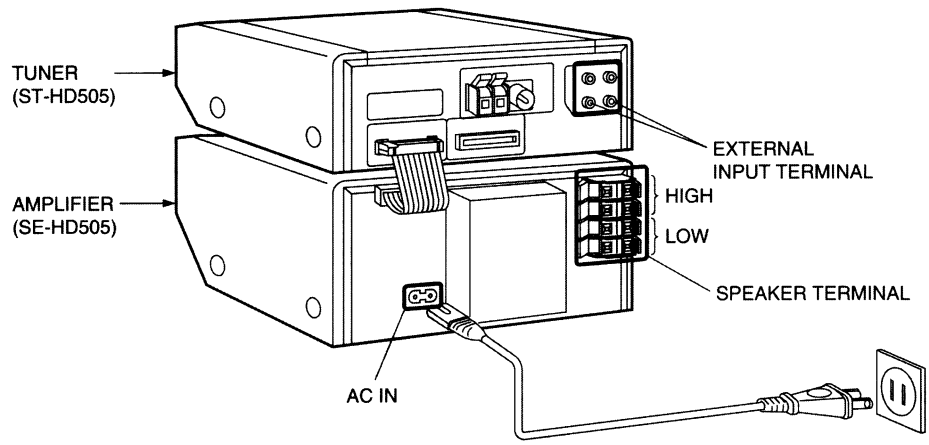
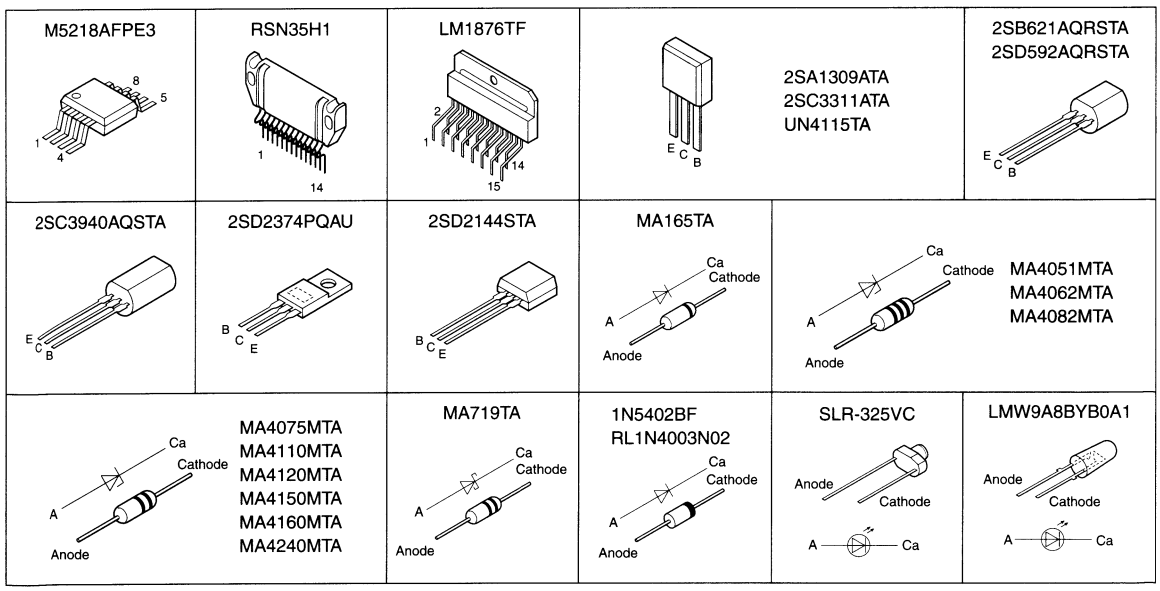


Fig. 1

9 Schematic Diagram Notes

9.1. Type Illustration of IC's, Transistors and Diodes



9.2. Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

- **S301:** Power "STANDBY ⏻ / ON" switch in "ON" position.
- **S302:** Eco mode switch in "OFF" position.
- **S303:** Input selector(▶) switch.
- **S308:** Input selector (◀) switch .
- **S308:** BLFS/-DEMO switch.
- **VR301:** Volume V.R.
- **VR401:** Fine tweeter control V.R.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance)with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

  No mark: Power ON

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

  When replacing any of components, be sure to use only manufacture´s specified parts shown in the parts list.

- **Caution!**

  IC and LSI are sensitive to static electricity.

  Secondary trouble can be prevented by taking care during repair.

  Cover the parts boxes made of plastics with aluminum foil.

  Ground the soldering iron.

  Put a conductive mat on the work table.

  Do not touch the legs of IC or LSI with the fingers directly.

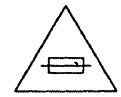
- **Voltage and signal lines**

  ▬▶ : Positive voltage line

  ▪▪▶▪▪ : Negative voltage line

  ⇨ : Source signal line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 6A125V FUSE.



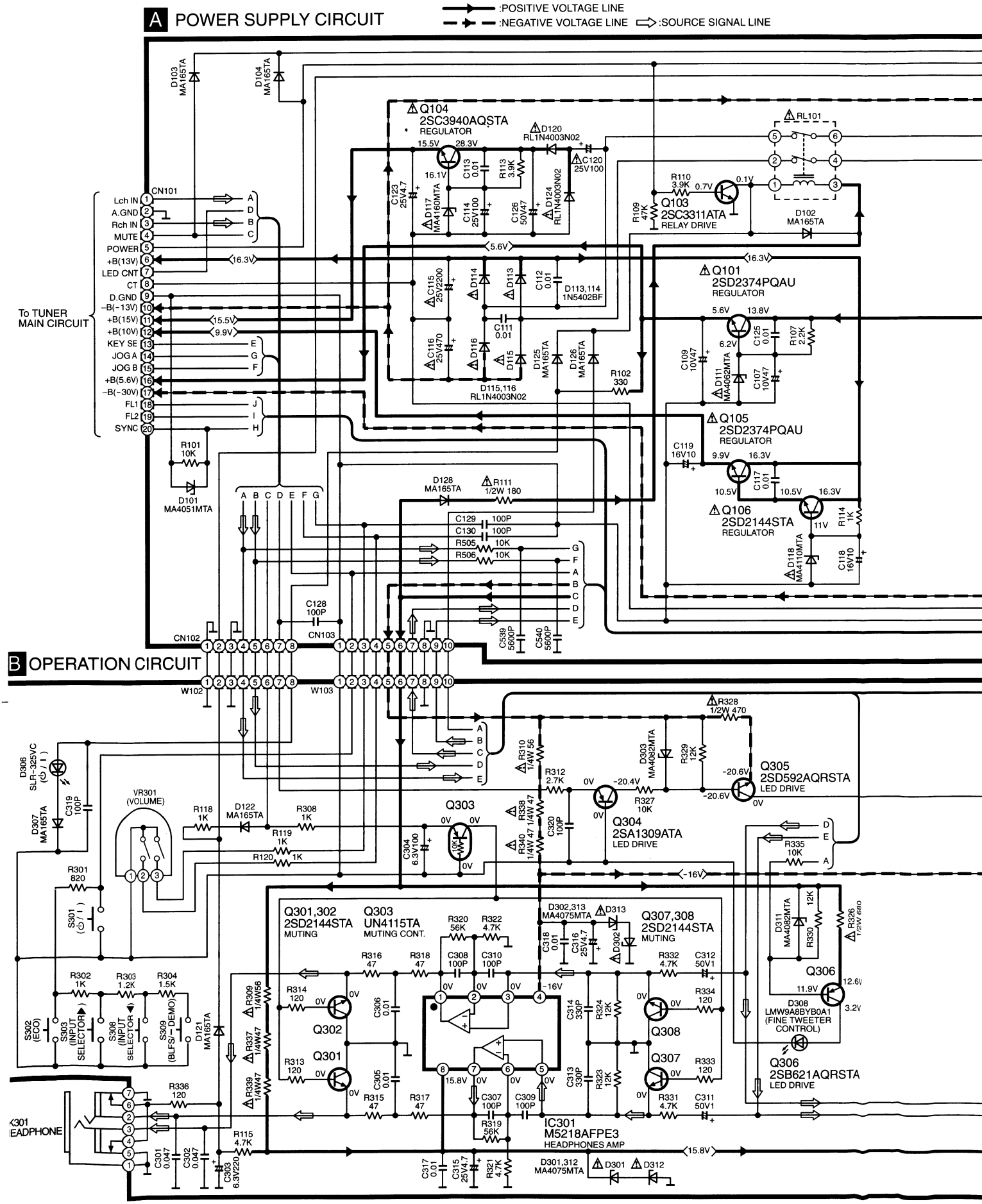
RISK OF FIRE-REPLACE FUSE AS MARKED.

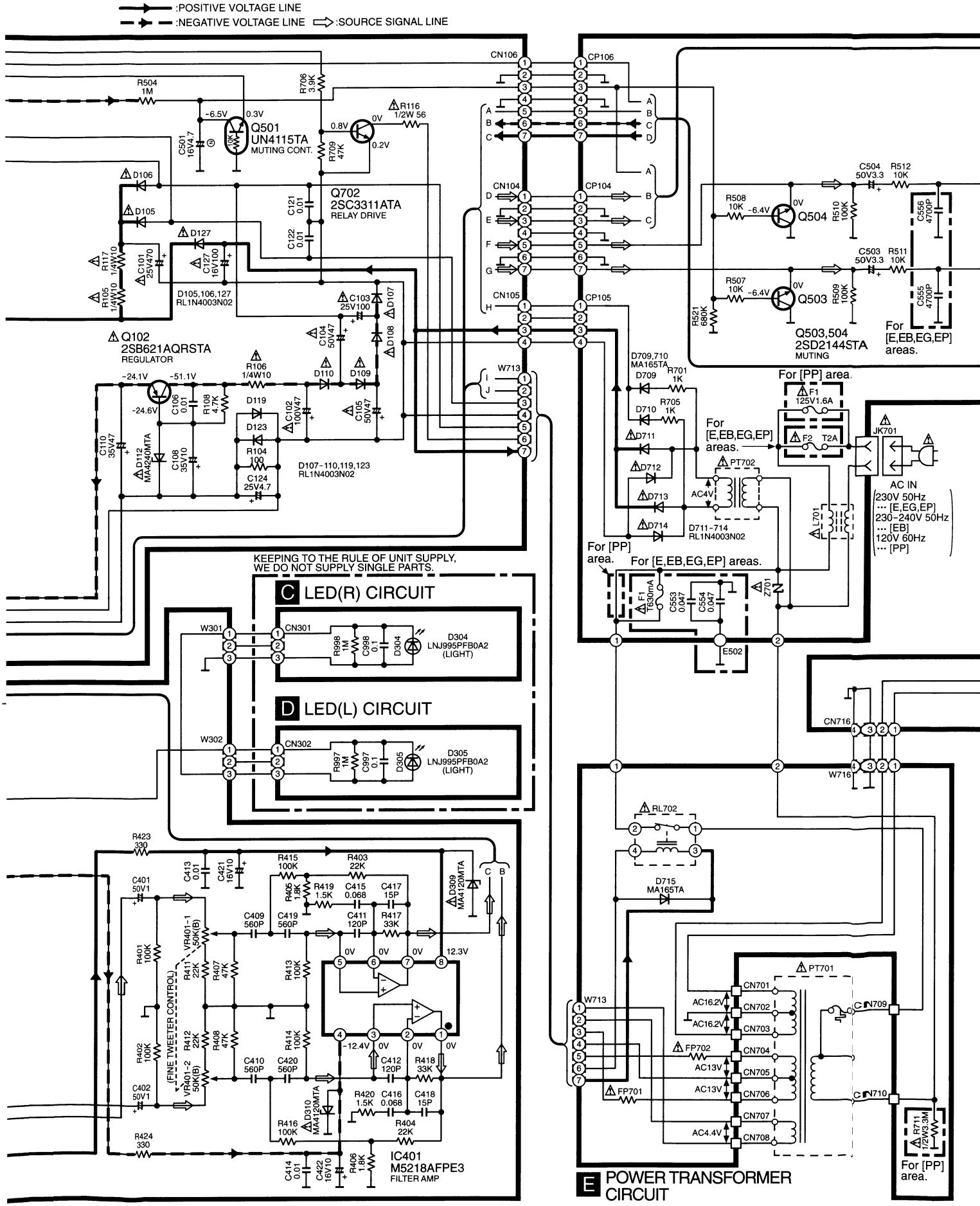
FUSE CAUTION

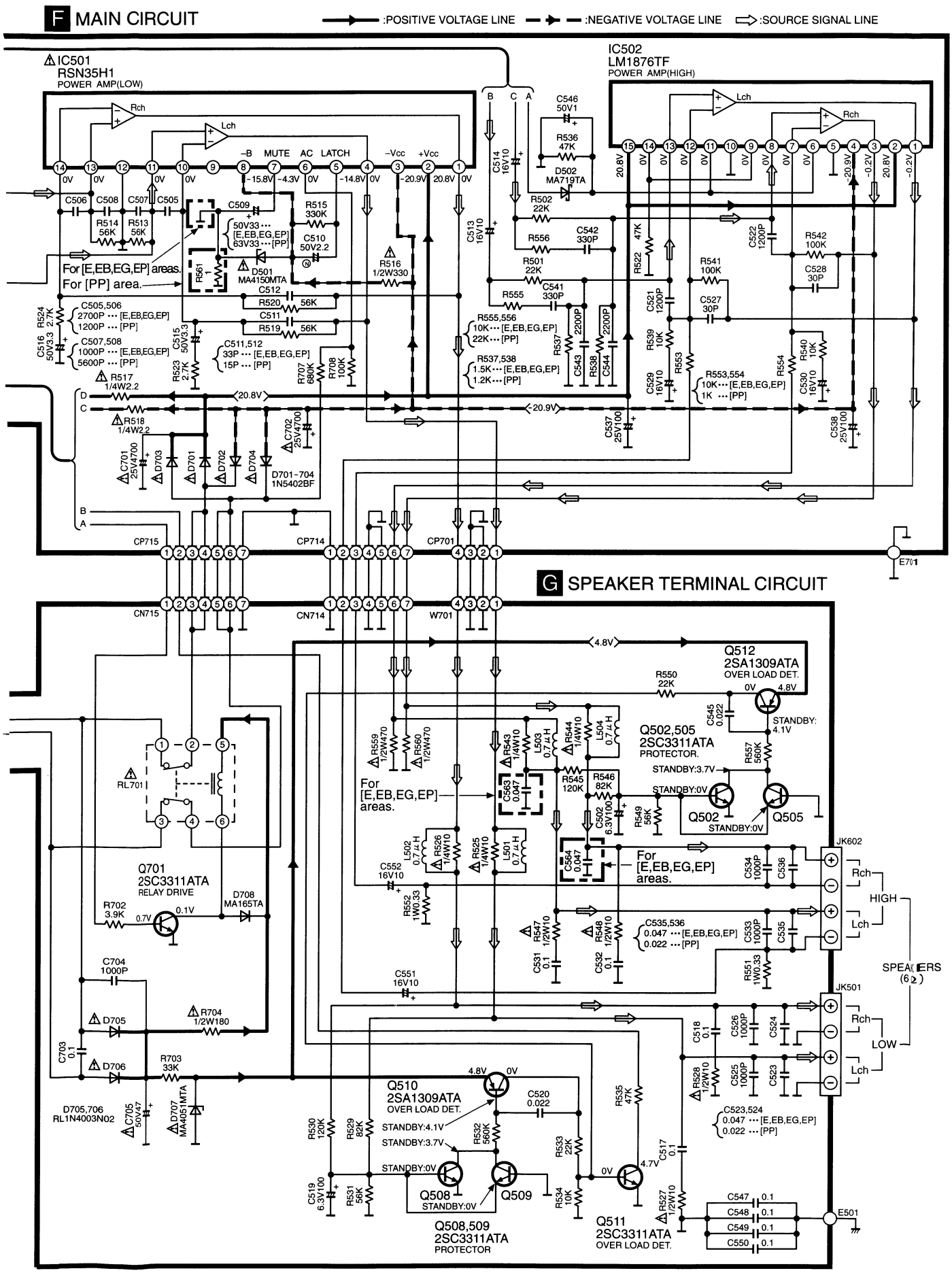
This symbol located near the fuse indicates that the fuse used is slow operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à trot. Pour une protection permanente, n' utiliser que des fusibles de mêne type. Ce dernier est indiqué là qù le présent symbole est apposé.

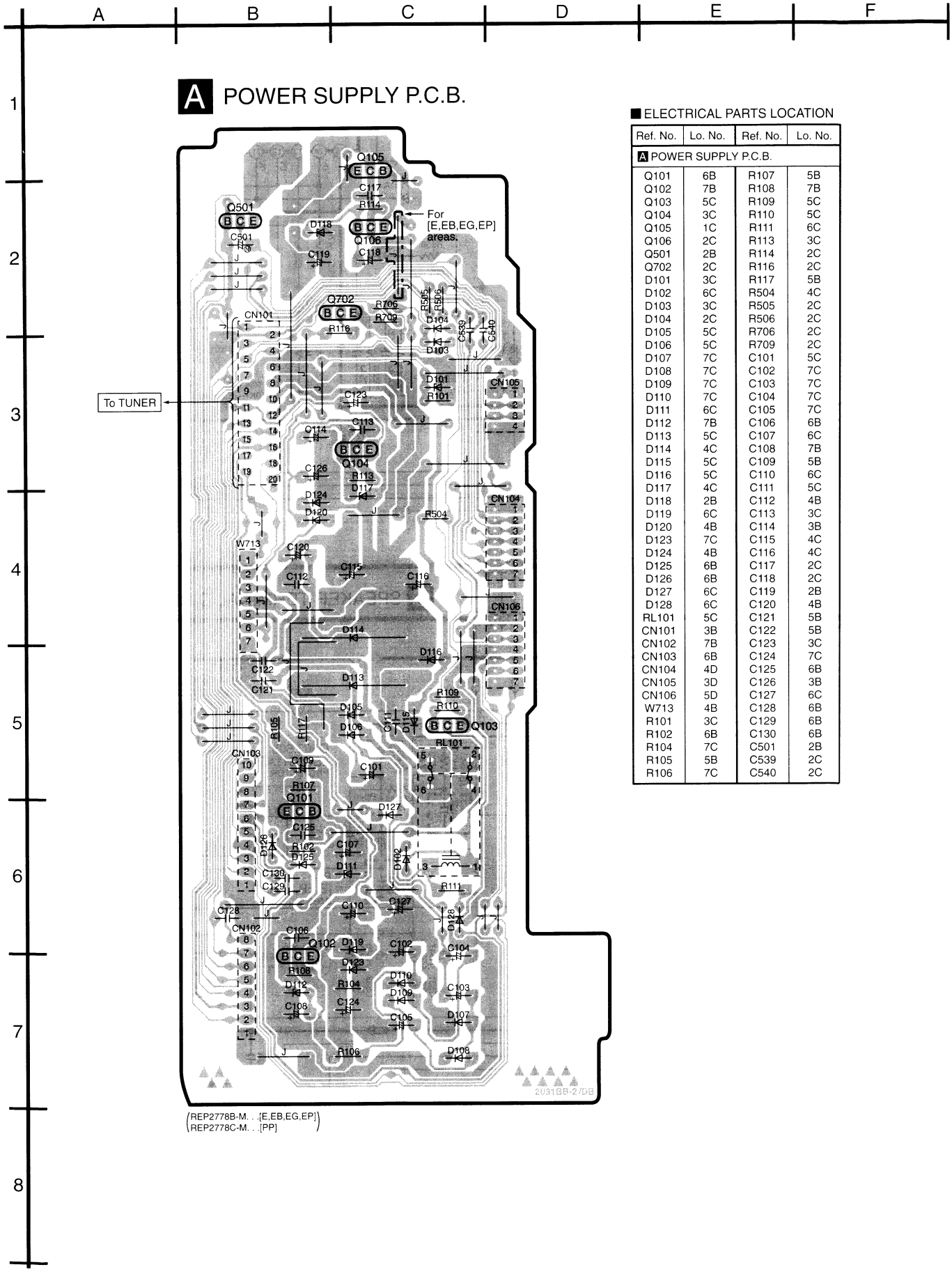
10 Schematic Diagram




:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:SOURCE SIGNAL LINE
Q501 UN4115TA MUTING CONT.
Q702 2SC3311ATA RELAY DRIVE
Q102 2SB621AQRSTA REGULATOR
Q504
Q503
Q503,504 2SD2144STA MUTING
For [E,EB,EG,EP] areas.
For [PP] area.
D105,106,127 RL1N4003N02
D107-110,119,123 RL1N4003N02
D709,710 MA165TA
D711-714 RL1N4003N02
AC IN
230V 50Hz ... [E,EG,EP]
230-240V 50Hz ... [EB]
120V 60Hz ... [PP]
KEEPING TO THE RULE OF UNIT SUPPLY, WE DO NOT SUPPLY SINGLE PARTS.
C LED(R) CIRCUIT
D304 LNJ995PFB0A2 (LIGHT)
D LED(L) CIRCUIT
D305 LNJ995PFB0A2 (LIGHT)
(FINE TWEETER CONTROL)
IC401 M5218AFPE3 FILTER AMP
E POWER TRANSFORMER CIRCUIT


F MAIN CIRCUIT
:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:SOURCE SIGNAL LINE
IC501
RSN35H1
POWER AMP(LOW)
IC502
LM1876TF
POWER AMP(HIGH)
Rch
Lch
-B MUTE AC LATCH -Vcc +Vcc
For [E,EB,EG,EP] areas.
For [PP] area.
D501 MA4150MTA
D502 MA719TA
D701-704 1N5402BF
CP715
CP714
CP701
E701
G SPEAKER TERMINAL CIRCUIT
CN715
CN714
W701
RL701
Q701 2SC3311ATA RELAY DRIVE
Q502,505 2SC3311ATA PROTECTOR.
Q502
Q505
Q510 2SA1309ATA OVER LOAD DET.
Q512 2SA1309ATA OVER LOAD DET.
Q508
Q509
Q508,509 2SC3311ATA PROTECTOR
Q511 2SC3311ATA OVER LOAD DET.
D705,706 RL1N4003N02
D707 MA4051MTA
D708 MA165TA
JK602
JK501
SPEAKERS (6Ω)
Rch
Lch
HIGH
LOW
E501

11 Printed Circuit Board Diagram

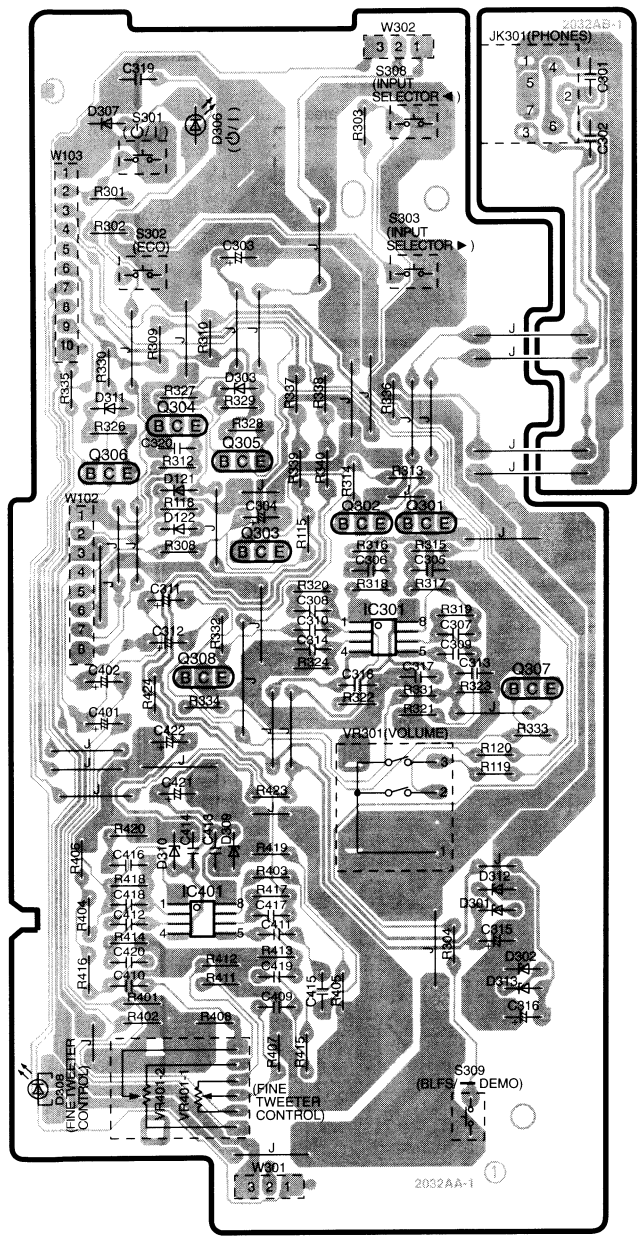


(REP2778B-M. . .[E,EB,EG,EP])
(REP2778C-M. . .[PP])

■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
A POWER SUPPLY P.C.B.			
Q101	6B	R107	5B
Q102	7B	R108	7B
Q103	5C	R109	5C
Q104	3C	R110	5C
Q105	1C	R111	6C
Q106	2C	R113	3C
Q501	2B	R114	2C
Q702	2C	R116	2C
D101	3C	R117	5B
D102	6C	R504	4C
D103	3C	R505	2C
D104	2C	R506	2C
D105	5C	R706	2C
D106	5C	R709	2C
D107	7C	C101	5C
D108	7C	C102	7C
D109	7C	C103	7C
D110	7C	C104	7C
D111	6C	C105	7C
D112	7B	C106	6B
D113	5C	C107	6C
D114	4C	C108	7B
D115	5C	C109	5B
D116	5C	C110	6C
D117	4C	C111	5C
D118	2B	C112	4B
D119	6C	C113	3C
D120	4B	C114	3B
D123	7C	C115	4C
D124	4B	C116	4C
D125	6B	C117	2C
D126	6B	C118	2C
D127	6C	C119	2B
D128	6C	C120	4B
RL101	5C	C121	5B
CN101	3B	C122	5B
CN102	7B	C123	3C
CN103	6B	C124	7C
CN104	4D	C125	6B
CN105	3D	C126	3B
CN106	5D	C127	6C
W713	4B	C128	6B
R101	3C	C129	6B
R102	6B	C130	6B
R104	7C	C501	2B
R105	5B	C539	2C
R106	7C	C540	2C

B OPERATION P.C.B.



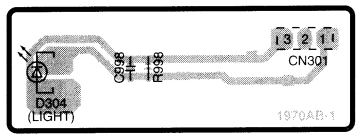
(REP2779A-S)

■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
B OPERATION P.C.B.					
IC301	4C	R309	3B	R417	5B
IC401	5B	R310	3B	R418	5A
Q301	3C	R312	3B	R419	5B
Q302	3B	R313	3C	R420	5A
Q303	4B	R314	3B	R423	5B
Q304	3B	R315	4C	R424	4B
Q305	3B	R316	4C	C301	1D
Q306	3A	R317	4C	C302	2D
Q307	4C	R318	4C	C303	2B
Q308	4B	R319	4C	C304	3B
D121	3B	R320	4B	C305	4C
D122	3B	R321	4C	C306	4C
D301	5C	R322	4B	C307	4C
D302	5C	R323	4C	C308	4B
D303	3B	R324	4B	C309	4C
D306	2B	R326	3A	C310	4B
D307	2A	R327	3B	C311	4B
D308	6A	R328	3B	C312	4B
D309	5B	R329	3B	C313	4C
D310	5B	R330	3A	C314	4B
D311	3A	R331	4C	C315	5C
D312	5C	R332	4B	C316	6C
D313	6C	R333	4C	C317	4C
VR301	5C	R334	4B	C318	4B
VR401	6B	R335	3A	C319	1A
S301	2A	R336	3C	C320	3B
S302	2A	R337	3B	C401	4A
S303	2C	R338	3B	C402	4A
S308	2C	R339	3B	C409	6B
S309	6C	R340	3B	C410	5A
W102	4A	R401	6A	C411	5B
W103	2A	R402	6A	C412	5A
W301	6B	R403	5B	C413	5B
W302	1C	R404	5A	C414	5B
JK301	1C	R405	6B	C415	6B
R115	3B	R406	5A	C416	5A
R118	3B	R407	6B	C417	5B
R119	5C	R408	6B	C418	5A
R120	4C	R411	5B	C419	5B
R301	2A	R412	5B	C420	5A
R302	2A	R413	5B	C421	5B
R303	2B	R414	5A	C422	4B
R304	5C	R415	6B		
R308	4B	R416	5A		
C LED (R) P.C.B.					
D304	8B	R998	8B		
CN301	8C	C998	8B		
D LED (L) P.C.B.					
D305	8D	R997	8E		
CN302	8E	C997	8E		

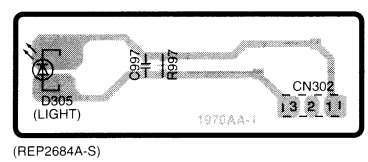
[Keeping to the rule of unit supply, we do not supply single parts.]

C LED(R) P.C.B.



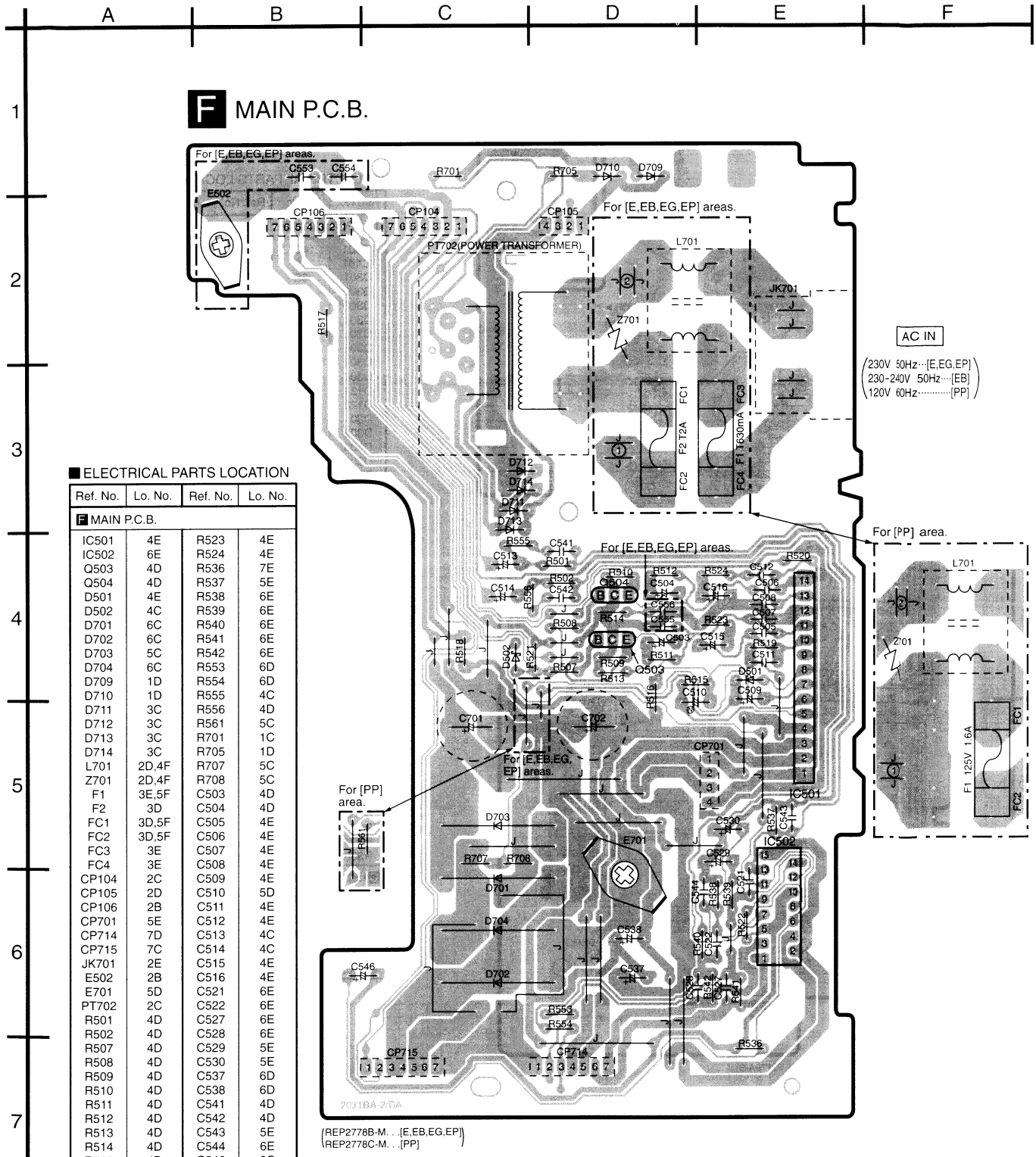
(REP2684A-S)

D LED(L) P.C.B.



(REP2684A-S)

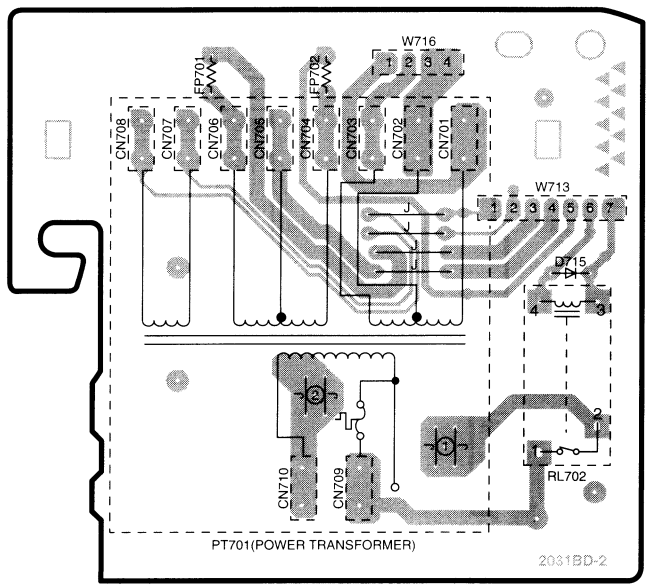
F MAIN P.C.B.



■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
F MAIN P.C.B.			
IC501	4E	R523	4E
IC502	6E	R524	4E
Q503	4D	R536	7E
Q504	4D	R537	5E
D501	4E	R538	6E
D502	4C	R539	6E
D701	6C	R540	6E
D702	6C	R541	6E
D703	5C	R542	6E
D704	6C	R553	6D
D709	1D	R554	6D
D710	1D	R555	4C
D711	3C	R556	4D
D712	3C	R561	5C
D713	3C	R701	1C
D714	3C	R705	1D
L701	2D,4F	R707	5C
Z701	2D,4F	R708	5C
F1	3E,5F	C503	4D
F2	3D	C504	4D
FC1	3D,5F	C505	4E
FC2	3D,5F	C506	4E
FC3	3E	C507	4E
FC4	3E	C508	4E
CP104	2C	C509	4E
CP105	2D	C510	5D
CP106	2B	C511	4E
CP701	5E	C512	4E
CP714	7D	C513	4C
CP715	7C	C514	4C
JK701	2E	C515	4E
E502	2B	C516	4E
E701	5D	C521	6E
PT702	2C	C522	6E
R501	4D	C527	6E
R502	4D	C528	6E
R507	4D	C529	5E
R508	4D	C530	5E
R509	4D	C537	6D
R510	4D	C538	6D
R511	4D	C541	4D
R512	4D	C542	4D
R513	4D	C543	5E
R514	4D	C544	6E
R515	4D	C546	6C
R516	4D	C553	1B
R517	2B	C554	1B
R518	4C	C555	4D
R519	4E	C556	4D
R520	4E	C701	5C
R521	4D	C702	5D
R522	6E		

E POWER TRANSFORMER P.C.B.
For [E,EB,EG,EP] areas.

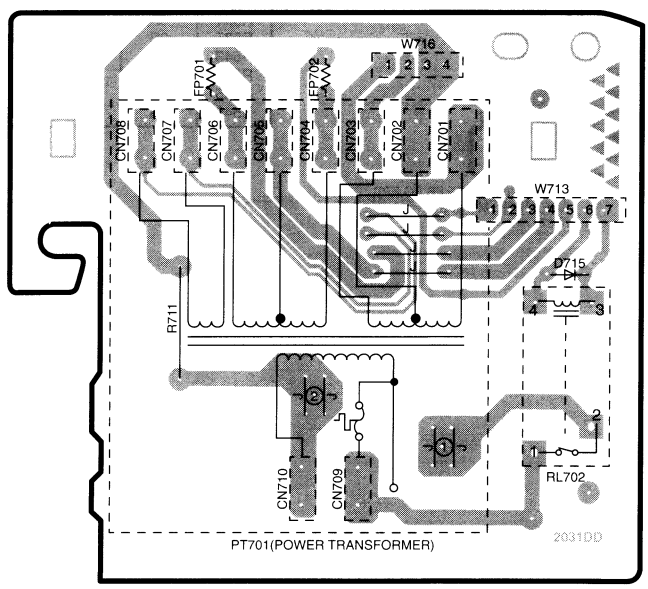


(REP2778B-M)

■ ELECTRICAL PARTS LOCATION

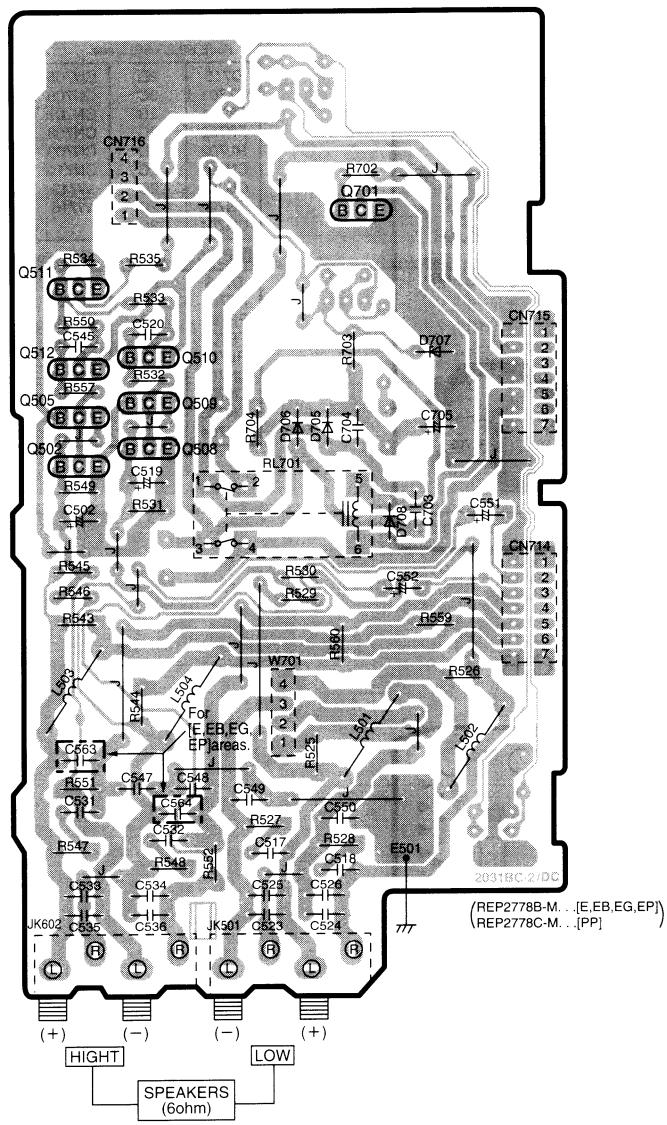
Ref. No.	Lo. No.	Ref. No.	Lo. No.
E POWER TRANS. P.C.B. For[E,EB,EG,EP] areas.			
D715	2D	CN705	2C
PT701	3C	CN706	2B
FP701	2B	CN707	2B
FP702	2C	CN708	2B
RL702	3D	CN709	3C
CN701	2C	CN710	3C
CN702	2C	W713	2D
CN703	2C	W716	2C
CN704	2C		
E POWER TRANS. P.C.B. For [PP] area.			
D715	6D	CN705	5C
PT701	6C	CN706	5B
FP701	5B	CN707	5B
FP702	5C	CN708	5B
RL702	7D	CN709	7C
CN701	5C	CN710	7C
CN702	5C	W713	6D
CN703	5C	W716	5C
CN704	5C	R711	6B

E POWER TRANSFORMER P.C.B.
For [PP] area.



(REP2778C-M)

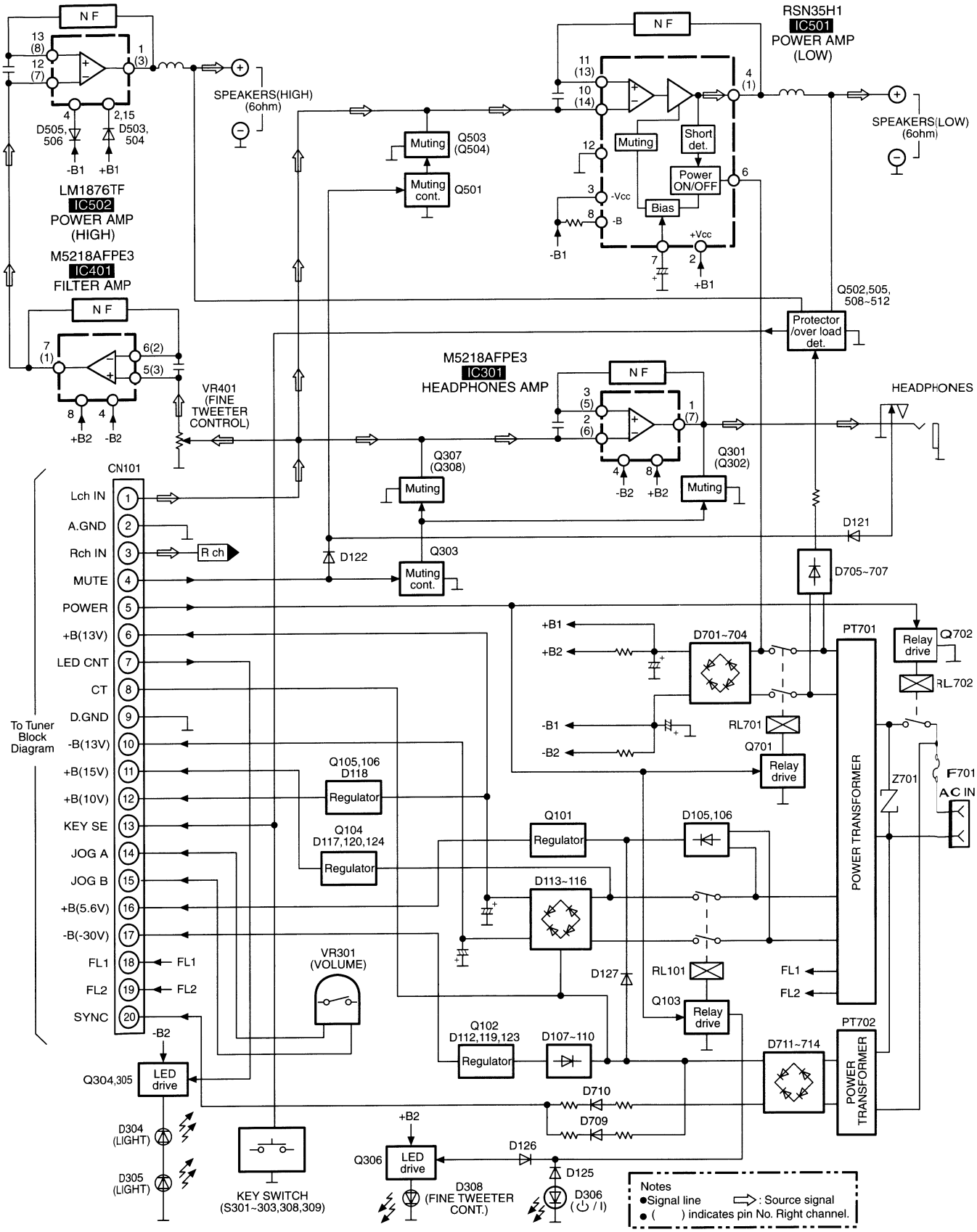
G SPEAKER TERMINAL P.C.B.



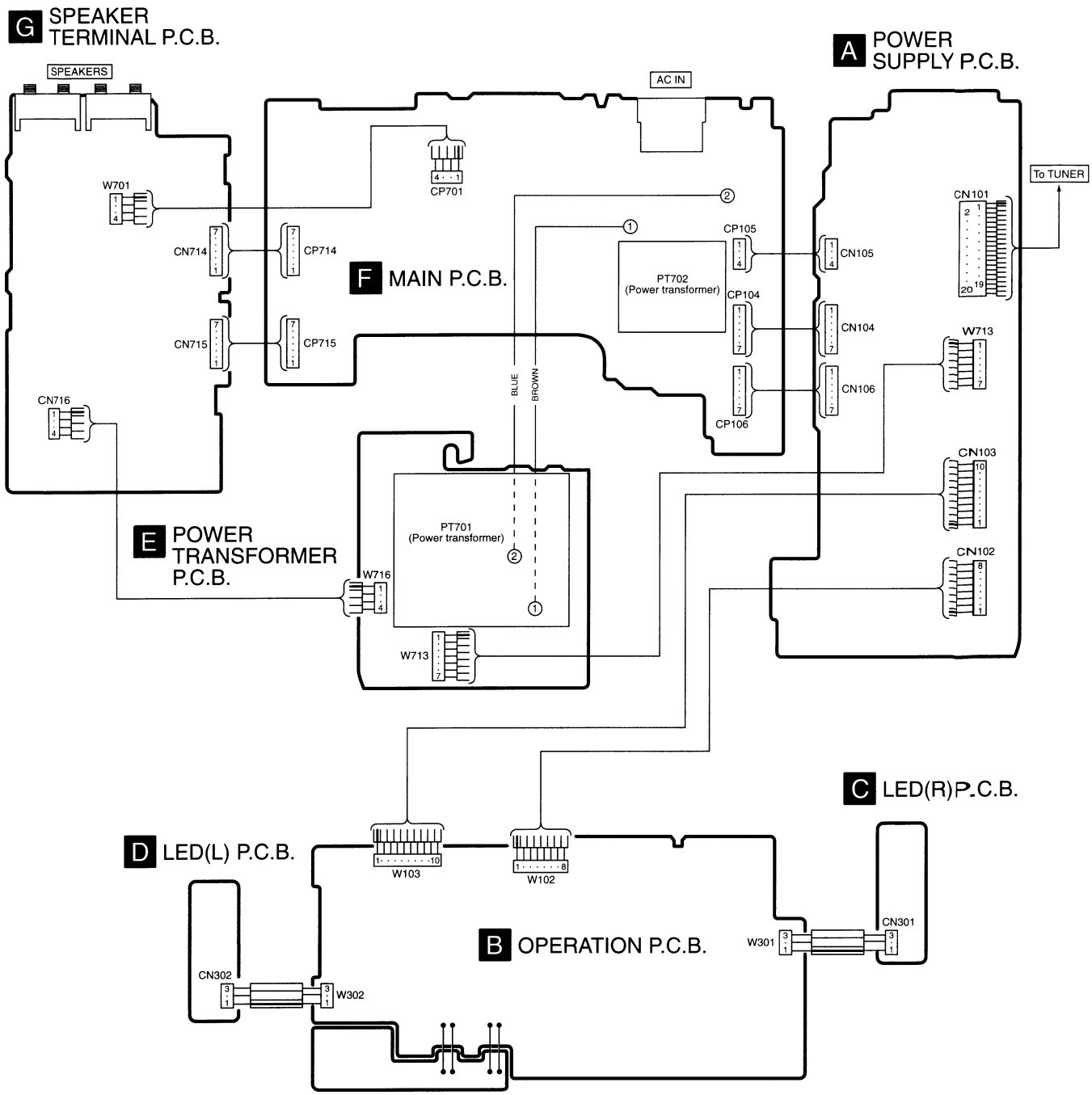
■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
G SPEAKER TERMINAL P.C.B.			
Q502	3A	R547	5A
Q505	3A	R548	5B
Q508	3B	R549	4A
Q509	3B	R550	3A
Q510	3B	R551	5A
Q511	3A	R552	5B
Q512	3A	R557	3A
Q701	2B	R559	4C
D705	3B	R560	4B
D706	3B	R702	2B
D707	3C	R703	3B
D708	4C	R704	3B
L501	5C	C502	4A
L502	5C	C517	5B
L503	4A	C518	5B
L504	5B	C519	4B
RL701	4B	C520	3B
CN714	4C	C523	6B
CN715	3C	C524	6B
CN716	2A	C525	5B
W701	5B	C526	5B
JK501	6B	C531	5A
JK602	6A	C532	5B
E501	5C	C533	5A
R525	5B	C534	5B
R526	4C	C535	6A
R527	5B	C536	6B
R528	5B	C545	3A
R529	4B	C547	5A
R530	4B	C548	5B
R531	4B	C549	5B
R532	3B	C550	5B
R533	3B	C551	4C
R534	3A	C552	4C
R535	3B	C563	5A
R543	4A	C564	5B
R544	5A	C703	4C
R545	4A	C704	3B
R546	4A	C705	3C

12 Block Diagram



13 Wiring Connection Diagram



14 Replacement Parts List

Notes:

* Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture´s specified parts shown in the parts list.

* The parenthesized indications in the Remarks columns specify the areas.
Parts without these indications can be used for all areas.

* Remote Control Ass´y: Supply period for three years from terminal of production.

* Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF), F=Farads (F)

* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM)

* "<IA>, <IB>, <IC>, <ID>, <IE>, <IF>, <IG>" marks in Remarks indicate languages of instruction manuals.

[<IA>: Spanish/Swedish, <IB>: German/Italian/French, <IC>: Dutch/Danish, <ID>: English, <IE>: Czeco/Polish, <IF>: English, <IG>: Canadian French]

*The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHD30007-S	SCREW	4	
2	RGK0972-1S	SIDE PANEL(L)	1	
3	RGK0973-1S	SIDE PANEL(R)	1	
4	XTBS3+8JFZ1	SCREW	12	
5	RGL0394-Q	PANEL LIGHT(L)	1	
6	RGL0395-Q	PANEL LIGHT(R)	1	
7	XTBS26+8J	SCREW	5	
8	RKM0364B-1S	CABINET	1	
9	XTB3+8JFZ	SCREW	3	
10	RGH0153B-K	NAME PLATE	1	(E,EG)
10	RGH0153C-K	NAME PLATE	1	(EB)
10	RGH0153D-K1	NAME PLATE	1	(EP)
10	RGH0153E-K1	NAME PLATE	1	(PP)
11	XTBS3+10JFZ1	SCREW	1	
12	RGL0393-Q	PANEL LIGHT	1	
13	RGL0431-Q	MD INDICATOR	1	
14	XTB3+20JFZ	SCREW	3	
15	XTW3+15T	SCREW	3	
16	RGW0303-S	KNOB CONTROL	1	
17	REP2684A-S	LED L R P.C.B.	1	
18	RGG0161B-S	FRONT PANEL	1	(E EB EG EP)
18	RGG0161C-S	FRONT PANEL	1	(PP)
19	RGP0699A-S	SUB PANEL	1	
20	RHN90001	NUT	2	
21	RGW0277-1S	KNOB VOLUME	1	
22	RGU1716-S	BUTTON INPUT	1	
23	RHD26016	SCREW	1	
24	XTB3+5JFZ	SCREW	4	
25	RKA0098-K	FOOT	4	
26	XTB3+12FFZ	SCREW	1	
27	REX0962	FLAT CABLE(20P)	1	
28	RMZ0339	ZNR COVER	1	(E EB EG EP)
A1	RAK-HDA10WH	REMOTE CONT.TRANSMITTER	1	
A1-1	RKK0123-H	BATT.COVER(REMOTE CONT.)	1	
A5	RQA0117	WARRANTY CARD	1	(E EB EG EP)
A5	RQA0149	WARRANTY CARD(FOR U.S.A)	1	(PP)
A5	SQX7183	WARRANTY CARD(FOR CANADA)	1	(PP)
A6	REE0499	SPEAKER CORD	2	
A7 ⚠	RJA0019-X	AC POWER SUPPLY CORD	1	(E EG EP)
A7 ⚠	RJA0053-2X	AC POWER SUPPLY CORD	1	(EB)
A7 ⚠	RJA0065-K	AC POWER SUPPLY CORD	1	(PP)
A8	RQT4929-E	INSTRUCTION MANUAL	1	(E) <IA>
A8	RQT4930-D	INSTRUCTION MANUAL	1	(EG)<IB>
A8	RQT4931-H	INSTRUCTION MANUAL	1	(EG)<IC>
A8	RQT4932-B	INSTRUCTION MANUAL	1	(EB EP)<ID>
A8	RQT4933-R	INSTRUCTION MANUAL	1	(EP)<IE>
A8	RQT4934-P	INSTRUCTION MANUAL	1	(PP)<IF>
A8	RQT4935-C	INSTRUCTION MANUAL	1	(PP)<IG>
A9	RSA0021	AM LOOP ANTENNA	1	
A10	RSA0007	FM INDOOR ANTENNA	1	(E EB EG EP)
A10	RSA0006	FM INDOOR ANTENNA	1	(PP)
A11	REE0853	SPEAKER CORD	2	
A12	RQCB0169	SERVICENTER LIST	1	(E EB EG EP)
A12	RQCB0391	SERVI.LIST(FOR U.S.A.)	1	(PP)
A12	RQCB0832	SERVI.LIST(FOR CANADA)	1	(PP)
A13	RQCA0666	QUICK SET UP GUIDE	1	(EB)
A14	SJP9009	AC PLUG ADAPTOR	1	(EB)
C101 ⚠	RCE1EM471BV	25V 470U	1	
C102 ⚠	ECA2AM470	100V 47U	1	
C103 ⚠	ECA1EM101	25V 100U	1	
C104,05 ⚠	ECA1HM470	50V 47U	2	
C106	ECBT1E103ZF	25V 0.01U	1	
C107	RCE1AKA470BG	10V 47U	1	
C108	RCE1VKA100BG	35V 10U	1	
C109	RCE1AKA470BG	10V 47U	1	
C110	ECEA1VKS470	35V 47U	1	
C111,12	ECKR1H103ZF5	50V 0.01U	2	
C113	ECBT1E103ZF	25V 0.01U	1	
C114	ECA1EM101	25V 100U	1	
C115 ⚠	ECA1EM222	25V 2200U	1	
C116 ⚠	RCE1EM471BV	25V 470U	1	
C117	ECBT1E103ZF	25V 0.01U	1	
C118,19	RCE1CKA100BG	16V 10U	2	
C120 ⚠	ECA1EM101	25V 100U	1	
C121,22	ECBT1E103ZF	25V 0.01U	2	
C123,24	ECEA1EKS4R7	25V 4.7U	2	
C125	ECBT1E103ZF	25V 0.01U	1	
C126	ECA1HM470	50V 47U	1	

SE-HD505

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C127 ⚠	ECEA1CKS101	16V 100U	1	
C128-30	ECBT1H101KB5	50V 100P	3	
C301,02	ECBT1H473ZF5	50V 0.047U	2	
C303	ECEA1AKS221	6.3V 220U	1	
C304	ECEA0JKS101	6.3V 100U	1	
C305,06	ECBT1E103ZF	25V 0.01U	2	
C307-10	ECBT1H101KB5	50V 100P	4	
C311,12	ECEA1HKS010	50V 1U	2	
C313,14	ECBT1H331KB5	50V 330P	2	
C315,16	ECEA1EKS4R7	25V 4.7U	2	
C317,18	ECBT1E103ZF	25V 0.01U	2	
C319,20	ECBT1H101KB5	50V 100P	2	
C401,02	ECEA1HKS010	50V 1U	2	
C409,10	ECBT1H561KB5	50V 560P	2	
C411,12	ECBT1H121KB5	50V 120P	2	
C413,14	ECBT1E103ZF	25V 0.01U	2	
C415,16	ECQV1H683JZ3	50V 0.068U	2	
C417,18	ECBT1H150JC5	50V 15P	2	
C419,20	ECBT1H561KB5	50V 560P	2	
C421,22	RCE1CKA100BG	16V 10U	2	
C501	ECEA1CKN4R7	16V 4.7U	1	
C502	ECEA0JKS101	6.3V 100U	1	
C503,04	RCE1HKA3R3BG	50V 3.3U	2	
C505	ECBT1C272KR5	16V 2700P	1	(E EB EG EP)
C505	ECBT1C122KR5	16V 1200P	1	(PP)
C506	ECBT1C272KR5	16V 2700P	1	(E EB EG EP)
C506	ECBT1C122KR5	16V 1200P	1	(PP)
C507	ECBT1H102KB5	50V 1000P	1	(E EB EG EP)
C507	ECBT1C562KR5	16V 5600P	1	(PP)
C508	ECBT1H102KB5	50V 1000P	1	(E EB EG EP)
C508	ECBT1C562KR5	16V 5600P	1	(PP)
C509	ECEA1HKA330B	50V 33U	1	(E EB EG EP)
C509	ECA1JM330	63V 33U	1	(PP)
C510	ECEA1HSN2R2	50V 2.2U	1	
C511	ECBT1H330J5	50V 33P	1	(E EB EG EP)
C511	ECBT1H150J5	50V 15P	1	(PP)
C512	ECBT1H330J5	50V 33P	1	(E EB EG EP)
C512	ECBT1H150J5	50V 15P	1	(PP)
C513,14	RCE1CKA100BG	16V 10U	2	
C515,16	RCE1HKA3R3BG	50V 3.3U	2	
C517,18	ECBT1H104ZF5	50V 0.1U	2	
C519	ECEA0JKS101	6.3V 100U	1	
C520	ECBT1E223ZF	25V 0.022U	1	
C521,22	ECBT1C122KR5	16V 1200P	2	
C523	ECBT1H473ZF5	50V 0.047U	1	(E EB EG EP)
C523	ECBT1E223ZF	25V 0.022U	1	(PP)
C524	ECBT1H473ZF5	50V 0.047U	1	(E EB EG EP)
C524	ECBT1E223ZF	25V 0.022U	1	(PP)
C525,26	ECBT1H102KB5	50V 1000P	2	
C527,28	ECBT1H300J5	50V 30P	2	
C529,30	RCE1CKA100BG	16V 10U	2	
C531,32	ECBT1H104ZF5	50V 0.1U	2	
C533,34	ECBT1H102KB5	50V 1000P	2	
C535	ECBT1H473ZF5	50V 0.047U	1	(E EB EG EP)
C535	ECBT1E223ZF	25V 0.022U	1	(PP)
C536	ECBT1H473ZF5	50V 0.047U	1	(E EB EG EP)
C536	ECBT1E223ZF	25V 0.022U	1	(PP)
C537,38	ECA1EM101	25V 100U	2	
C539,40	ECBT1C562KR5	16V 5600P	2	
C541,42	ECBT1H331KB5	50V 330P	2	
C543,44	ECBT1C222KR5	16V 2200P	2	
C545	ECBT1E223ZF	25V 0.022U	1	
C546	ECEA1HKS010	50V 1U	1	
C547-50	ECBT1H104ZF5	50V 0.1U	4	
C551,52	RCE1CKA100BG	16V 10U	2	
C553,54	ECBT1H473ZF5	50V 0.047U	2	(E EB EG EP)
C555,56	ECBT1C472KR5	16V 4700P	2	(E EB EG EP)
C563,64	ECBT1H473ZF5	50V 0.047U	2	(E EB EG EP)
C701,02 ⚠	ECA1EM472	25V 4700U	2	
C703	ECQE1104KF3	100V 0.1U	1	
C704	ECKR2H102ZF5	500V 1000P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C705 ⚠	ECA1HM470	50V 47U	1	
CN101	RJS2A5520-1	CONNECTOR(20P)	1	
CN102	RJS8T6ZA	CONNECTOR(8P)	1	
CN103	RJS10T6ZA	CONNECTOR(10P)	1	
CN104	RJU057W007	CONNECTOR(7P)	1	
CN105	RJU057W004	CONNECTOR(4P)	1	
CN106	RJU057W007	CONNECTOR(7P)	1	
CN701-10	RJS1A1101T1	CONNECTOR(1P)	10	
CN714,15	RJU057W007	CONNECTOR(7P)	2	
CN716	RJS4T6ZA	CONNECTOR(4P)	1	
CP104	RJT057W007-1	CONNECTOR(7P)	1	
CP105	RJT057W004-1	CONNECTOR(4P)	1	
CP106	RJT057W007-1	CONNECTOR(7P)	1	
CP701	RJS1A6604	CONNECTOR(4P)	1	
CP714,15	RJT057W007-1	CONNECTOR(7P)	2	
D101	MA4051M	DIODE	1	
D102-04	MA165	DIODE	3	
D105-10 ⚠	RL1N4003N02	DIODE	6	
D111 ⚠	MA4062M	DIODE	1	
D112 ⚠	MA4240H	DIODE	1	
D113,14 ⚠	1N5402BF	DIODE	2	
D115,16 ⚠	RL1N4003N02	DIODE	2	
D117 ⚠	MA4160M	DIODE	1	
D118 ⚠	MA4110M	DIODE	1	
D119	RL1N4003N02	DIODE	1	
D120 ⚠	RL1N4003N02	DIODE	1	
D121,22	MA165	DIODE	2	
D123	RL1N4003N02	DIODE	1	
D124 ⚠	RL1N4003N02	DIODE	1	
D125,26	MA165	DIODE	2	
D127 ⚠	RL1N4003N02	DIODE	1	
D128	MA165	DIODE	1	
D301,02 ⚠	MA4075M	DIODE	2	
D303	MA4082M	DIODE	1	
D306	SLR-325VC	LED	1	
D307	MA165	DIODE	1	
D308	LMW9A8BYB0A1	LED	1	
D309,10 ⚠	MA4120M	DIODE	2	
D311	MA4082M	DIODE	1	
D312,13 ⚠	MA4075M	DIODE	2	
D501	MA4150M	DIODE	1	
D502	MA719TA	DIODE	1	
D701-04 ⚠	1N5402BF	DIODE	4	
D705,06 ⚠	RL1N4003N02	DIODE	2	
D707 ⚠	MA4051M	DIODE	1	
D708-10	MA165	DIODE	3	
D711-14 ⚠	RL1N4003N02	DIODE	4	
D715	MA165	DIODE	1	
F1 ⚠	XBA2C06TB0	FUSE T0.63A	1	(E EB EG EP)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F1 ⚠	XBA1C16NBAU	FUSE 12.5V 1.6A	1	(PP)
F2 ⚠	XBA2C20TB0	FUSE T2A	1	(E EB EG EP)
FP701,02 ⚠	RSFMB40KT-L	FUSE PROTECTOR	2	
IC301	M5218AFPE3	IC	1	
IC401	M5218AFPE3	IC	1	
IC501 ⚠	RSN35H1-P	IC	1	
IC502	LM1876TF	IC	1	
JK301	RJJ37TN01-2C	JACK HEADPHONES	1	
JK501	RJR0054E	JACK SPEAKER	1	
JK602	RJR0054H	JACK SPEAKER	1	
JK701 ⚠	SJS9236	JACK AC INLET	1	(E EB EG EP)
JK701 ⚠	SJSD16-1	JACK AC INLET	1	(PP)
L501-04	SLQY07G-40	COIL CHOKE	4	
L701 ⚠	RLQZ371	COIL CHOKE	1	
P1	RPG4373	PACKING CASE(SYSTEM)	1	(E)
P1	RPG4375	PACKING CASE(SYSTEM)	1	(EB)
P1	RPG4374	PACKING CASE(SYSTEM)	1	(EG)
P1	RPG4376	PACKING CASE(SYSTEM)	1	(EP)
P1	RPG4377	PACKING CASE(SYSTEM)	1	(PP)
P2	RPG3672	PACKING CASE(AMPLIFIER)	1	
P2	RPG3673	PACKING CASE(DECK)	1	
P2	RPG3674	PACKING CASE(TUNER/CD)	1	
P3	RPN1094-1	CUSHION(AMPLIFIER)	1	
P3	RPN1095-3	CUSHION(DECK)	1	
P3	RPN1096-3	CUSHION(TUNER/CD)	1	
P4	SPP740-1	PROTECTION BAG	1	
P5	RPF0139	PROTECTION BAG(F.B.)	1	
P6	RPQ0164	PAD	1	
P7	RPQ0837	PAD	1	
P8	RQX9467ZA	WARRANTY ENVELOPE	1	(PP)
PCB1	REP2778B-M	OPERATION PCB	1	(E EB EG EP) (RTL)
PCB1	REP2778C-M	OPERATION PCB	1	(PP) (RTL)
PCB2	REP2779A-S	MAIN PCB	1	(RTL)
PT701 ⚠	RTP2M5E014	POWER TRANSFORMER(MAIN)	1	(E EG EP)
PT701 ⚠	RTP2M5B016	POWER TRANSFORMER(MAIN)	1	(EB)
PT701 ⚠	RTP2M5C006	POWER TRANSFORMER(MAIN)	1	(PP)
PT702 ⚠	RTP1I3E001	POWER TRANSFORMER(SUB)	1	(E EB EG EP)
PT702 ⚠	RTP1H3C001	POWER TRANSFORMER(SUB)	1	(PP)
Q101 ⚠	2SD2374PQAU	TRANSISTOR	1	
Q102 ⚠	2SB621A-R	TRANSISTOR	1	
Q103	2SC3311ATA	TRANSISTOR	1	
Q104 ⚠	2SC3940AQSTA	TRANSISTOR	1	

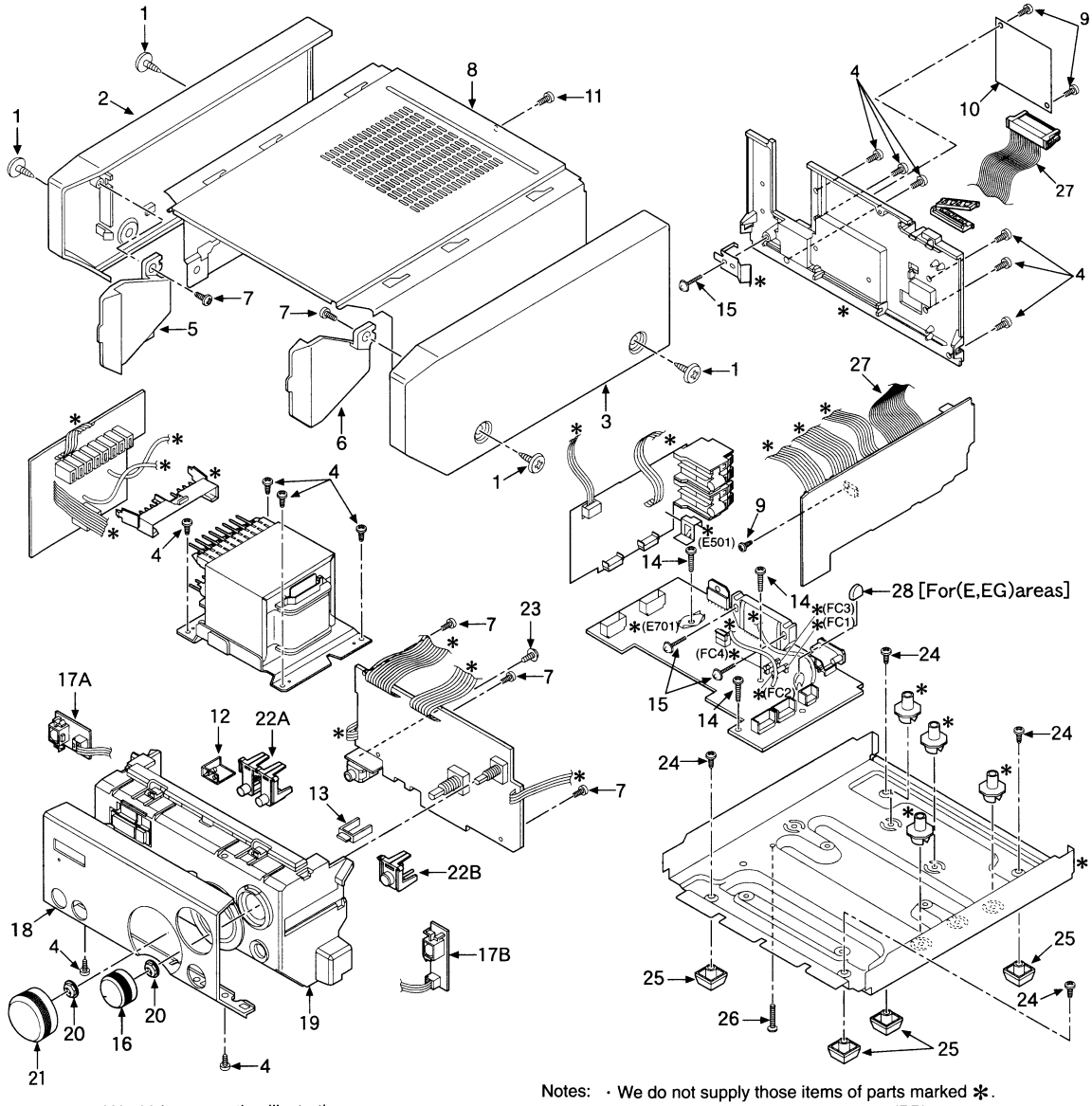
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q105 ⚠	2SD2374PQAU	TRANSISTOR	1	
Q106	2SC3327A	TRANSISTOR	1	
Q301,02	2SC3327A	TRANSISTOR	2	
Q303	UN4115	TRANSISTOR	1	
Q304	2SA1309ATA	TRANSISTOR	1	
Q305	2SD592AR	TRANSISTOR	1	
Q306	2SB621A-R	TRANSISTOR	1	
Q307,08	2SC3327A	TRANSISTOR	2	
Q501	UN4115	TRANSISTOR	1	
Q502	2SC3311ATA	TRANSISTOR	1	
Q503,04	2SC3327A	TRANSISTOR	2	
Q505	2SC3311ATA	TRANSISTOR	1	
Q508,09	2SC3311ATA	TRANSISTOR	2	
Q510	2SA1309ATA	TRANSISTOR	1	
Q511	2SC3311ATA	TRANSISTOR	1	
Q512	2SA1309ATA	TRANSISTOR	1	
Q701,02	2SC3311ATA	TRANSISTOR	2	
R101	ERDS2FJ103	1/4W 10K	1	
R102	ERDS2FJ331	1/4W 330	1	
R104	ERDS2FJ101	1/4W 100	1	
R105,06 ⚠	ERDS2FJ100	1/4W 10	2	
R107	ERDS2FJ222	1/4W 2.2K	1	
R108	ERDS2FJ472	1/4W 4.7K	1	
R109	ERDS2FJ473	1/4W 47K	1	
R110	ERDS2FJ392	1/4W 3.9K	1	
R111 ⚠	ERDS1FJ181	1/2W 180	1	
R113	ERDS2FJ392	1/4W 3.9K	1	
R114	ERDS2FJ102	1/4W 1K	1	
R115	ERDS2FJ472	1/4W 4.7K	1	
R116 ⚠	ERDS1FJ560	1/2W 56	1	
R117 ⚠	ERD2FCG100	1/4W 10	1	
R118-20	ERDS2FJ102	1/4W 1K	3	
R301	ERDS2FJ821	1/4W 820	1	
R302	ERDS2FJ102	1/4W 1K	1	
R303	ERDS2FJ122	1/4W 1.2K	1	
R304	ERDS2FJ152	1/4W 1.5K	1	
R308	ERDS2FJ102	1/4W 1K	1	
R309,10 ⚠	ERD25FVJ560T	1/4W 56	2	
R312	ERDS2FJ272	1/4W 2.7K	1	
R313,14	ERDS2FJ121	1/4W 120	2	
R315-18	ERDS2FJ470	1/4W 47	4	
R319,20	ERDS2FJ563	1/4W 56K	2	
R321,22	ERDS2FJ472	1/4W 4.7K	2	
R323,24	ERDS2FJ123	1/4W 12K	2	
R326 ⚠	ERDS1FJ681	1/2W 680	1	
R327	ERDS2FJ103	1/4W 10K	1	
R328 ⚠	ERDS1FJ471	1/2W 470	1	
R329,30	ERDS2FJ123	1/4W 12K	2	
R331,32	ERDS2FJ472	1/4W 4.7K	2	
R333,34	ERDS2FJ121	1/4W 120	2	
R335	ERDS2FJ103	1/4W 10K	1	
R336	ERDS2FJ121	1/4W 120	1	
R337-40	ERDS2FJ470	1/4W 47	4	
R401,02	ERDS2FJ104	1/4W 100K	2	
R403,04	ERDS2FJ223	1/4W 22K	2	
R405,06	ERDS2FJ182	1/4W 1.8K	2	
R407,08	ERDS2FJ473	1/4W 47K	2	
R411,12	ERDS2FJ223	1/4W 22K	2	
R413-16	ERDS2FJ104	1/4W 100K	4	
R417,18	ERDS2FJ333	1/4W 33K	2	
R419,20	ERDS2FJ152	1/4W 1.5K	2	
R423,24	ERDS2FJ331	1/4W 330	2	
R501,02	ERDS2FJ223	1/4W 22K	2	
R504	ERDS2FJ105	1/4W 1M	1	
R505-08	ERDS2FJ103	1/4W 10K	4	

SE-HD505

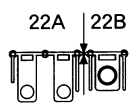
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R509,10	ERDS2FJ104	1/4W 100K	2	
R511,12	ERDS2FJ103	1/4W 10K	2	
R513,14	ERDS2FJ563	1/4W 56K	2	
R515	ERDS2FJ334	1/4W 330K	1	
R516 ⚠	ERDS1FJ331	1/2W 330	1	
R517,18 ⚠	ERDS2FJ2R2	1/4W 2.2	2	
R519,20	ERDS2FJ563	1/4W 56K	2	
R521	ERDS2FJ684	1/4W 680K	1	
R522	ERDS2FJ473	1/4W 47K	1	
R523,24	ERDS2FJ272	1/4W 2.7K	2	
R525,26 ⚠	ERDS2FJ100	1/4W 10	2	
R527,28 ⚠	ERDS1FJ100	1/2W 10	2	
R529	ERDS2FJ823	1/4W 82K	1	
R530	ERDS2FJ124	1/4W 120K	1	
R531	ERDS2FJ563	1/4W 56K	1	
R532	ERDS2FJ564	1/4W 560K	1	
R533	ERDS2FJ223	1/4W 22K	1	
R534	ERDS2FJ103	1/4W 10K	1	
R535,36	ERDS2FJ473	1/4W 47K	2	
R537	ERDS2FJ152	1/4W 1.5K	1	(E EB EG EP)
R537	ERDS2FJ122	1/4W 1.2K	1	(PP)
R538	ERDS2FJ152	1/4W 1.5K	1	(E EB EG EP)
R538	ERDS2FJ122	1/4W 1.2K	1	(PP)
R539,40	ERDS2FJ103	1/4W 10K	2	
R541,42	ERDS2FJ104	1/4W 100K	2	
R543,44 ⚠	ERDS2FJ100	1/4W 10	2	
R545	ERDS2FJ124	1/4W 120K	1	
R546	ERDS2FJ823	1/4W 82K	1	
R547,48 ⚠	ERDS1FJ100	1/2W 10	2	
R549	ERDS2FJ563	1/4W 56K	1	
R550	ERDS2FJ223	1/4W 22K	1	
R551,52	ERX1SJR33	1W 0.33	2	
R553	ERDS2FJ103	1/4W 10K	1	(E EB EG EP)
R553	ERDS2FJ102	1/4W 1K	1	(PP)
R554	ERDS2FJ103	1/4W 10K	1	(E EB EG EP)
R554	ERDS2FJ102	1/4W 1K	1	(PP)
R555	ERDS2FJ103	1/4W 10K	1	(E EB EG EP)
R555	ERDS2FJ223	1/4W 22K	1	(PP)
R556	ERDS2FJ103	1/4W 10K	1	(E EB EG EP)
R556	ERDS2FJ223	1/4W 22K	1	(PP)
R557	ERDS2FJ564	1/4W 560K	1	
R559,60 ⚠	ERDS1FJ471	1/2W 470	2	
R561	ERDS2FJ1R0	1/4W 1	1	(PP)
R701	ERDS2FJ102	1/4W 1K	1	
R702	ERDS2FJ392	1/4W 3.9K	1	
R703	ERDS2FJ333	1/4W 33K	1	
R704 ⚠	ERDS1FJ181	1/2W 180	1	
R705	ERDS2FJ102	1/4W 1K	1	
R706	ERDS2FJ392	1/4W 3.9K	1	
R707	ERDS2FJ684	1/4W 680K	1	
R708	ERDS2FJ104	1/4W 100K	1	
R709	ERDS2FJ473	1/4W 47K	1	
R711 ⚠	ERC12UGK335D	1/2W 3.3M	1	(PP)
RL101 ⚠	RSY0017M-0	RELAY	1	(E EB EG EP)
RL101 ⚠	RSY0023M-0	RELAY	1	(PP)
RL701 ⚠	RSY0017M-0	RELAY	1	(E EB EG EP)
RL701 ⚠	RSY0023M-0	RELAY	1	(PP)
RL702 ⚠	RSY0040M-0	RELAY	1	
S301-03	EVQ21405R	SW TACT	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S308,09	EVQ21405R	SW TACT	2	
VR301	EVQVBXFK124B	V.R. VOLUME	1	
VR401	EVJY91F04B54	V.R. FINE TWEETER CONT.	1	
Z701 ⚠	ERZV10V511CS	COMPONENT COMBINATION	1	

15 Cabinet Parts Location



Ref.No.22 button cutting illustration.



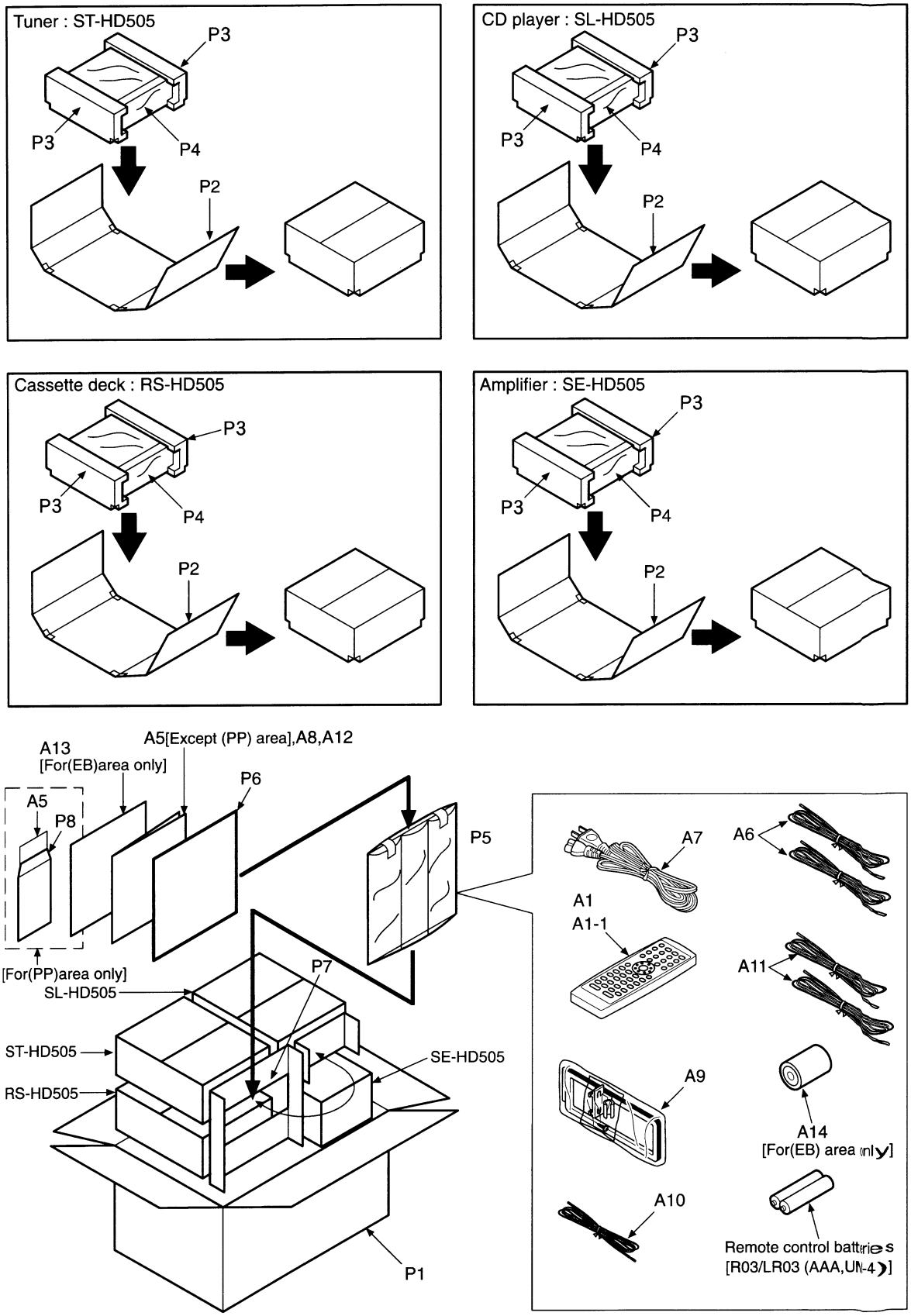
Cut off the button at ◀— point.

Notes:
- We do not supply those items of parts marked ✻.
- ✻(FC3),✻(FC4): For areas except (PP).
- About the part of Ref.No.17A and B, please use after cutting off the part of Ref. No.17 at "Replacement Parts List".
  - Ref.No.17A : D305 is on the printed circuit board.
  - Ref.No.17B : D304 is on the printed circuit board.
- About the parts of Ref.No.22A and B, please use after cutting off the part of Ref.No.22 at "Replacement Parts List".

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHD30007-S	SCREW	4	
2	RGK0972-1S	SIDE PANEL(L)	1	
3	RGK0973-1S	SIDE PANEL(R)	1	
4	XTBS3+8JFZ1	SCREW	12	
5	RGL0394-Q	PANEL LIGHT(L)	1	
6	RGL0395-Q	PANEL LIGHT(R)	1	
7	XTBS26+8J	SCREW	5	
8	RKM0364B-1S	CABINET	1	
9	XTB3+8JFZ	SCREW	3	
10	RGH0153B-K	NAME PLATE	1	(E,EG)
10	RGH0153C-K	NAME PLATE	1	(EB)
10	RGH0153D-K1	NAME PLATE	1	(EP)
10	RGH0153E-K1	NAME PLATE	1	(PP)
11	XTBS3+10JFZ1	SCREW	1	
12	RGL0393-Q	PANEL LIGHT	1	
13	RGL0431-Q	MD INDICATOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
14	XTB3+20JFZ	SCREW	3	
15	XTW3+15T	SCREW	3	
16	RGW0303-S	KNOB CONTROL	1	
17	REP2684A-S	LED L R P.C.B.	1	
18	RGG0161B-S	FRONT PANEL	1	(E EB EG EP)
18	RGG0161C-S	FRONT PANEL	1	(PP)
19	RGP0699A-S	SUB PANEL	1	
20	RHN90001	NUT	2	
21	RGW0277-1S	KNOB VOLUME	1	
22	RGU1716-S	BUTTON INPUT	1	
23	RHD26016	SCREW	1	
24	XTB3+5JFZ	SCREW	4	
25	RKA0098-K	FOOT	4	
26	XTB3+12FFZ	SCREW	1	
27	REX0962	FLAT CABLE(20P)	1	
28	RMZ0339	ZNR COVER	1	(E EB EG EP)

16 Packaging



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	RAK-HDA10WH	REMOTE CONT.TRANSMITTER	1	
A1-1	RKK0123-H	BATT.COVER(REMOTE CONT.)	1	
A5	RQA0117	WARRANTY CARD	1	(E EB EG EP)
A5	RQA0149	WARRANTY CARD(FOR U.S.A)	1	(PP)
A5	SQX7183	WARRANTY CARD(FOR CANADA)	1	(PP)
A6	REE0499	SPEAKER CORD	2	
A7 ⚠	RJA0019-X	AC POWER SUPPLY CORD	1	(E EG EP)
A7 ⚠	RJA0053-2X	AC POWER SUPPLY CORD	1	(EB)
A7 ⚠	RJA0065-K	AC POWER SUPPLY CORD	1	(PP)
A8	RQT4929-E	INSTRUCTION MANUAL	1	(E) <IA>
A8	RQT4930-D	INSTRUCTION MANUAL	1	(EG)<IB>
A8	RQT4931-H	INSTRUCTION MANUAL	1	(EG)<IC>
A8	RQT4932-B	INSTRUCTION MANUAL	1	(EB EP)<ID>
A8	RQT4933-R	INSTRUCTION MANUAL	1	(EP)<IE>
A8	RQT4934-P	INSTRUCTION MANUAL	1	(PP)<IF>
A8	RQT4935-C	INSTRUCTION MANUAL	1	(PP)<IG>
A9	RSA0021	AM LOOP ANTENNA	1	
A10	RSA0007	FM INDOOR ANTENNA	1	(E EB EG EP)
A10	RSA0006	FM INDOOR ANTENNA	1	(PP)
A11	REE0853	SPEAKER CORD	2	
A12	RQCB0169	SERVICENTER LIST	1	(E EB EG EP)
A12	RQCB0391	SERVI.LIST(FOR U.S.A.)	1	(PP)
A12	RQCB0832	SERVI.LIST(FOR CANADA)	1	(PP)
A13	RQCA0666	QUICK SET UP GUIDE	1	(EB)
A14	SJP9009	AC PLUG ADAPTOR	1	(EB)
P1	RPG4373	PACKING CASE(SYSTEM)	1	(E)
P1	RPG4375	PACKING CASE(SYSTEM)	1	(EB)
P1	RPG4374	PACKING CASE(SYSTEM)	1	(EG)
P1	RPG4376	PACKING CASE(SYSTEM)	1	(EP)
P1	RPG4377	PACKING CASE(SYSTEM)	1	(PP)
P2	RPG3672	PACKING CASE(AMPLIFIER)	1	
P2	RPG3673	PACKING CASE(DECK)	1	
P2	RPG3674	PACKING CASE(TUNER/CD)	1	
P3	RPN1094-1	CUSHION(AMPLIFIER)	1	
P3	RPN1095-3	CUSHION(DECK)	1	
P3	RPN1096-3	CUSHION(TUNER/CD)	1	
P4	SPP740-1	PROTECTION BAG	1	
P5	RPF0139	PROTECTION BAG(F.B.)	1	
P6	RPQ0164	PAD	1	
P7	RPQ0837	PAD	1	
P8	RQX9467ZA	WARRANTY ENVELOPE	1	(PP)

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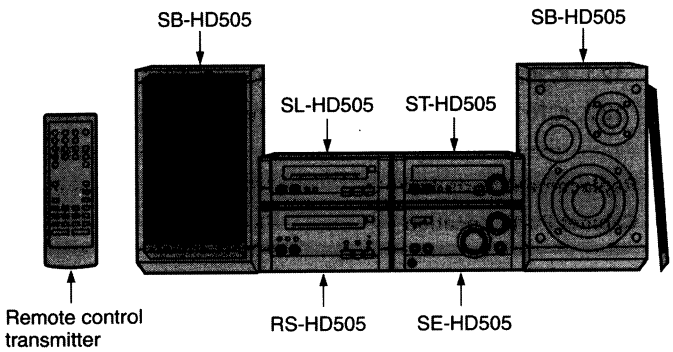
ORDER NO.AD9904109C5
A6

Service Manual

Tuner



ST-HD505

Colour

(S) .....Silver Type

Areas

PP.....U.S.A. and Canada.

E .....Europe.

System: SC-HD505

Because of unique interconnecting cables,when a component requires servise,send or bring in the entire system.

Note:Refer to the service manual for Model No.SE-HD 505(ORDER NO.AD9904110C5) for information on "ACCESSORIES", "INSTALLATION", "CONNECTIONS" and "PACKAGING".

Specification

■Pre-amplifier section

Input sensitivity/impedance

EXTERNAL: 300mV/15kΩ

Output level

EXTERNAL: 250mV/1.5kΩ

■FM tuner section

Frequency range(PP): 87.5-108.0MHz(0.1MHz step)
87.9-107.9MHz(0.2MHz step)

Frequency range(E): 87.50-108.00MHz(0.05MHz step)

Antenna terminals: 75Ω(unbalance)

■AM tuner section

Frequency range(PP): 520-1710kHz(10kHz step)

Frequency range(E): 522-1629kHz(9kHz step)
520-1630kHz(10kHz step)

■Timer section

Clock: Quartz-lock type

Function: Play timer:1 time or everyday
Rec.timer:1 time or everyday
Sleep timer:120min.intervals

■General

Dimensions(WxHxD): 202x76x262.5mm

Weight: 1.2kg

Power Supply

[For (E) area only]: AC4.2V,DC±13V/+16V/+10V/+5.6V/-24V

Power Consumption

[For (E) area only]: 15W

Notes:

1.Design and specifications are subject to change without notice.

2.Dimensions and weight are approximate.

■System/SC-HD505:

Tuner:ST-HD505,Compact Disc Player:SL-HD505,Amplifier:SE-HD505,Cassette Deck:RS-HD505,Speakers:SB-HD505(Made in MAES)

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Before Repair

This equipment (ST-HD505), which is a component of the system, is supplied with power from the amplifier (SE-HD505).When repairing this equipment or checking operation of the system, be sure to connect the amplifier with it.

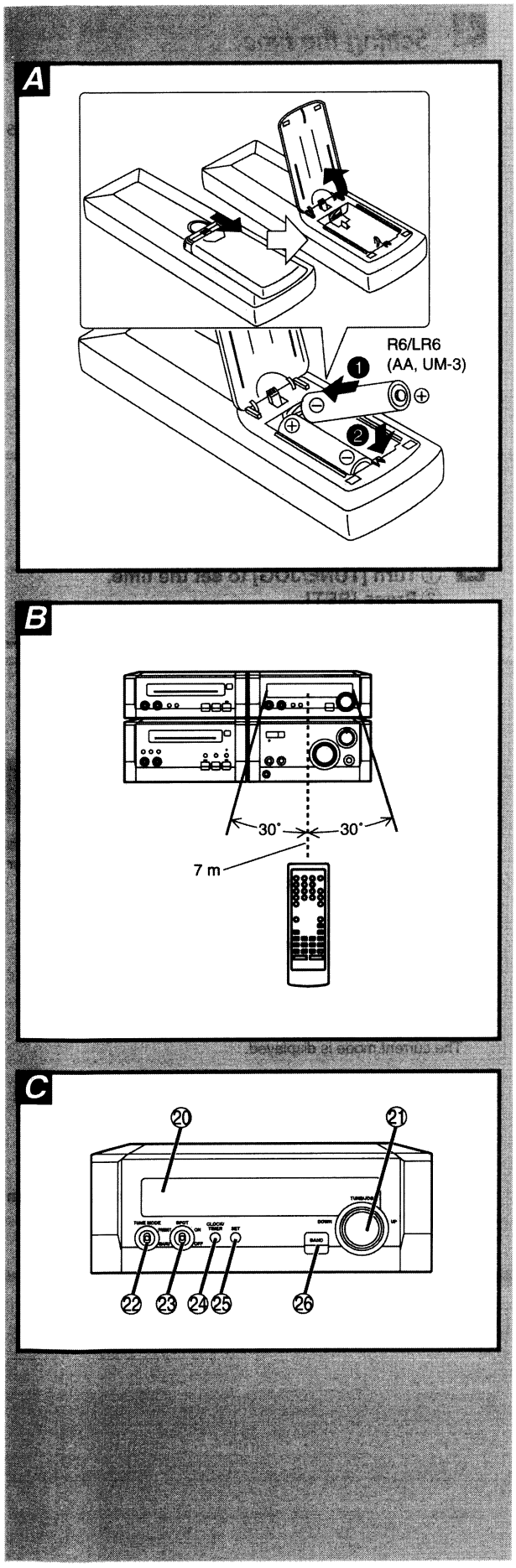
Power supply and operation check in the state of it as a single equipmenet are impracticable.

2 Blue LED

- The LED mounted to each side of the front panel of this set is very sensitive to static electricity.When handling the LED base plate, be very careful about it.
- Do not replace a blue LED singly. If replaced singly, it may be subject to electrostatic breakdown or deterioration in quality. When replacing the LED base plate, be sure to replace L and R sides simultaneously to permit the brightness adjustment.

*For configuration at the time of supply of replacement parts, refer to "Printed Circuit Board Diagram".

3 Operating Instructions



The remote control

A Batteries

Insert so the poles (+ and –) match those in the remote control.
Do not;
mix old and new batteries.
use different types at the same time.
heat or expose to flame.
take apart.
short circuit.
attempt to recharge alkaline or manganese batteries.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.
If electrolyte leaks from the batteries, consult your dealer.
Wash thoroughly with water if electrolyte comes in contact with any part of your body.

Do not use rechargeable type batteries.
Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
Replace if the unit does not respond to the remote control even when held close to the front panel.

If the battery lid comes loose, slide it back into place horizontally.

B Use

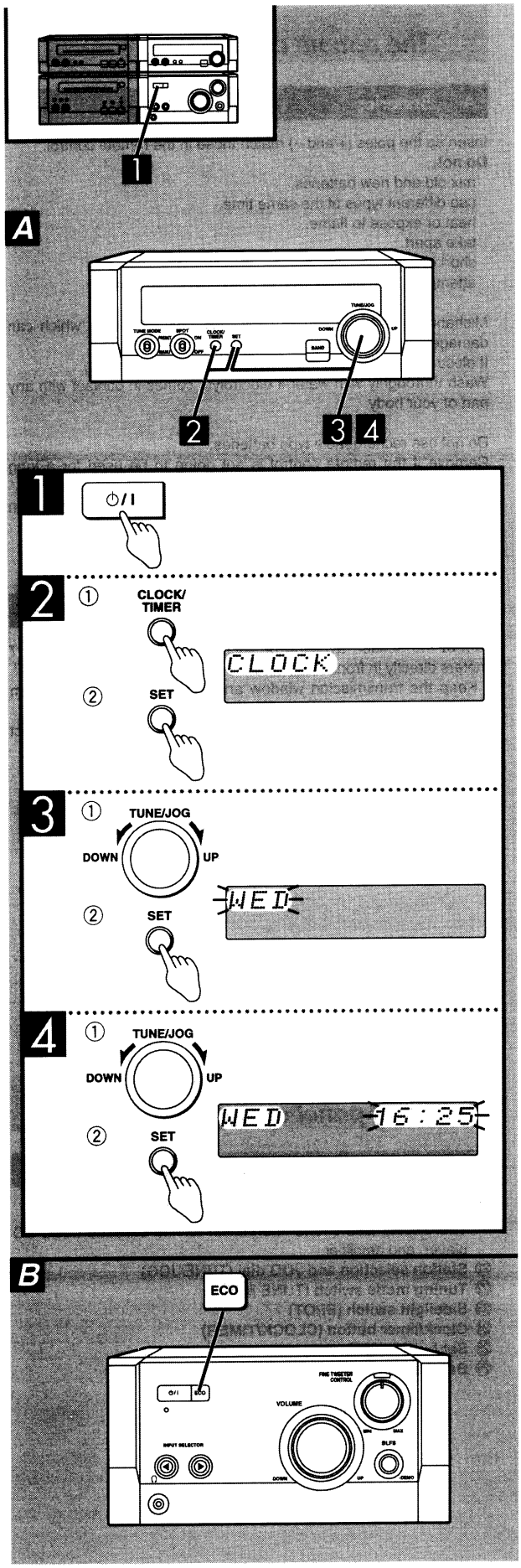
Aim at the sensor, avoiding obstacles, at a maximum range of 7 meters directly in front of the unit.
Keep the transmission window and the unit's sensor free from dust.
Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Do not;
put heavy objects on the remote control.
take the remote control apart.
spill liquids onto the remote control.

Front panel controls

C Tuner

⑳ **Display panel**
The display also shows information for the cassette deck, CD player, and amplifier.
㉑ **Station selection and JOG dial (TUNE/JOG)**
㉒ **Tuning mode switch (TUNE MODE)**
㉓ **Sidelight switch (SPOT)**
㉔ **Clock/timer button (CLOCK/TIMER)**
㉕ **Set button (SET**
㉖ **Band select button (BAND)**



A Setting the time

This is a 24-hour clock.

The example shows how to set the clock for Wednesday 16:25 (4:25 pm).

1 **Press [⏻ /I] to turn the unit on.**

2 **① Press [CLOCK/TIMER] to display "CLOCK."**

Each time you press the button:

CLOCK → ◴ PLAY → ◴ REC → Original display

② Within 7 seconds
Press [SET].

3 **① Turn [TUNE/JOG] to set the day.**
② Press [SET].

4 **① Turn [TUNE/JOG] to set the time.**
② Press [SET].
The time is set and the original display is restored.

Displaying the clock
Press [CLOCK/TIMER].
The clock is shown for about 5 seconds.

B ECO mode

When this mode is turned on, the clock is not displayed when the unit is in standby mode, thereby reducing standby mode power consumption from 9 W to 0.8 W. The standby indicator still lights.

Note

Turn DEMO off. ECO does not work when DEMO is on.

Turning ECO on and off:

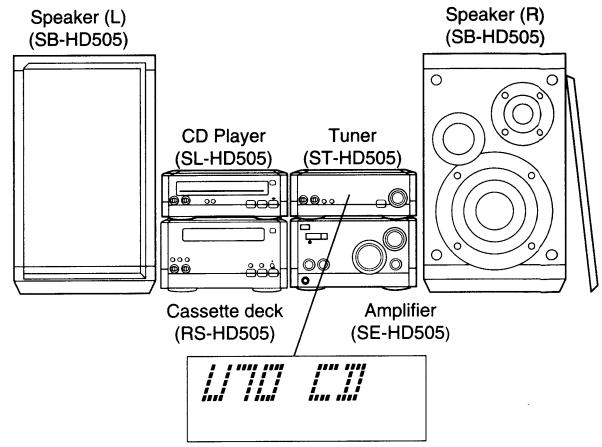
① Press [ECO].
The current mode is displayed.

② Within 2 seconds
Press [ECO] again.
Each time you press the button:
NORMAL (off) ⇄ ECO (on)

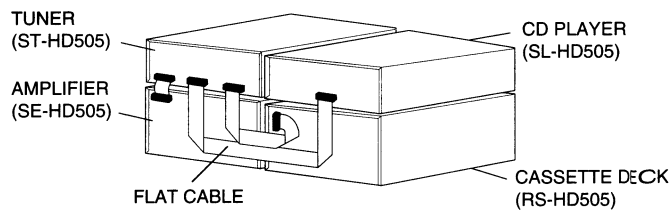
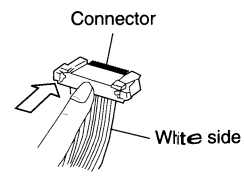
The mode can be switched to ECO when the unit is off but it can not be switched back to NORMAL.

4 About the Self-Diagnostic Mode

This unit is epuipped with a self-diagnostic function which, in the event of a malfunction, automatically displays a code indicating the nature of the malfunctions.Use this self-diagnostic function when servicing the unit.

Display method	Display location
To display the malfunction code U70 CD..... Automatically displays on the tuner when a malfunction occurs. F61..... Automatically displays on the tuner when a malfunction occurs. **To return the normal display** **1.For U70 CD:** • Press an any operation button on the tuner. • To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again. **2.For F61 CD:** • If F61 is displayed, the power will automatically be switched off. • F61 will be displayed for 3 seconds, and then the clock will be displayed. • To re-display the code, switch the power on. F61 will be redisplayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off.	

Display contents

Display code	Problem or condition	Correction procedure
U70 CD (displyed automatically)	A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating. 1. If U70 is displayed on the tuner, the Cassette deck or CD player cannot be operated by remote control.	 1. To check for correct insertion of the flat cables 1Match each connector with the color (black/ white) of the connection port and insert until you hear a click. 2Insert the flat cables at the back of the unit in the order indicated. Make sure the white side of the cable is on your right side.  2. Breakage of flat cable (Check and replace as necessary.) 3. If the problem is not corrected by items (1.) and (2.) above,this indicates a faulty IC. U70CD { **ST-HD505:** IC701 (M30218MAA101) / **SL-HD505:** IC403 (LC66358C4K97) Check these IC's and replace as necessary.
F61	When the power switch is switched on, it automatically switches back off, making it impossible to switch power on.	• Faulty amplifier (SE-HD505) output IC (IC501 and IC502). (When a DC voltage is applied to the speaker terminals.)

5 Power Source ON/OFF and Signal Check

To operate this unit ST-HD505 normally, it is necessary for connecting to the unit SE-HD505.

When operating the unit ST-HD505, be sure to connect the unit SE-HD505 by connection cable.

1. Short the section between TP302 (A.GND) and TP304(D.GND), and as well as the section between TP303(CT) and TP304(D.GND).(As shown in Fig.1.)
2. Connect with the Amplifier (SE-HD505).(As shown in Fig.1.)
3. Connect the AC mains lead to Amplifier (SE-HD505).(As shown in Fig.1.)
4. Connect the speakers to speaker input terminal.(As shown in Fig.1.)
5. Turn on the power of the Amplifier (SE-HD505).
6. Press INPUT SELECTOR to select the external souce (EXT) of the Amplifier (SE-HD505).
7. Input a sound signal to external input terminal of Tuner (ST-HD505), and confirm to be outputted from the speaker.

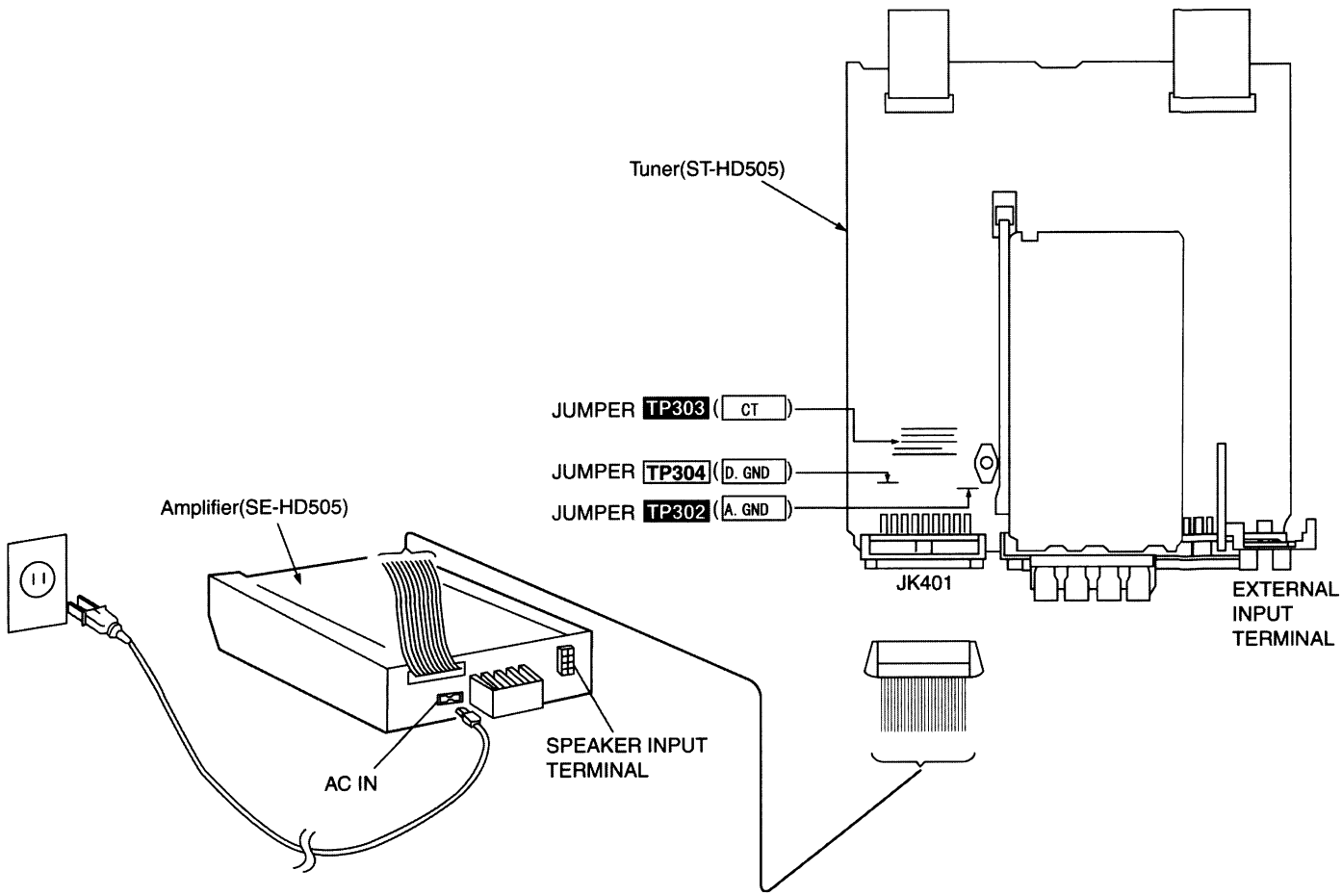


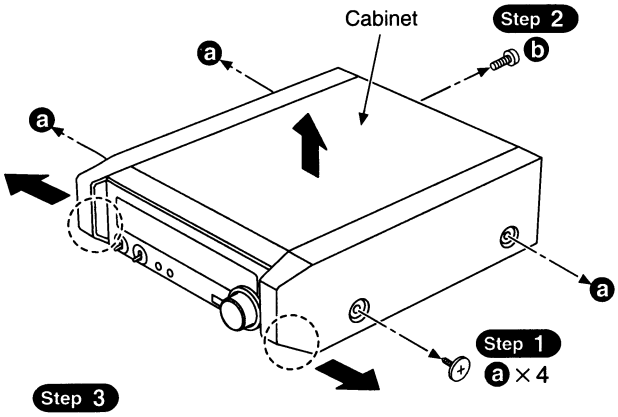
Fig.1

6 Operation Checks and Component Replacement Procedures

NOTE **1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**

2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

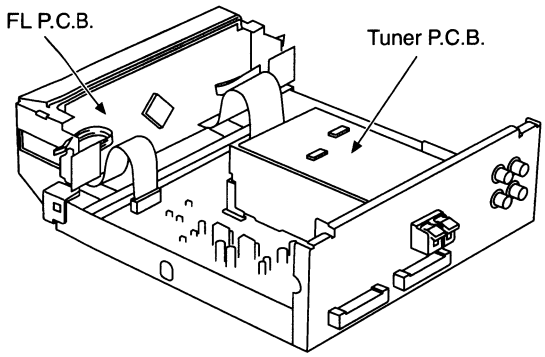
1. Checking for the tuner P.C.B. and FL P.C.B.



Step 3

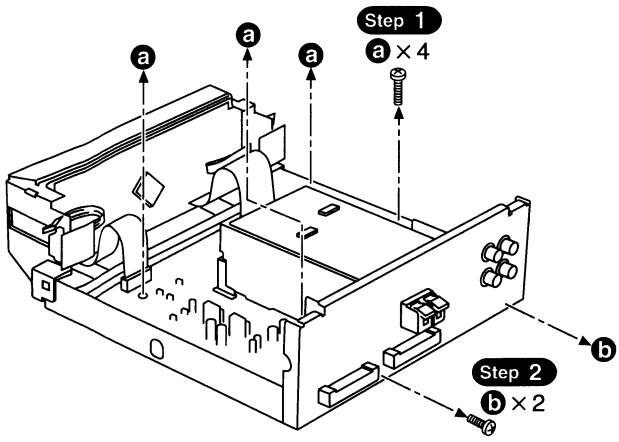
Spreading the both front tails indicated with (◌) of cabinet a small amount, lift up and remove the cabinet in the direction of arrow.

· Check the tuner P.C.B. and FL P.C.B. as shown below.



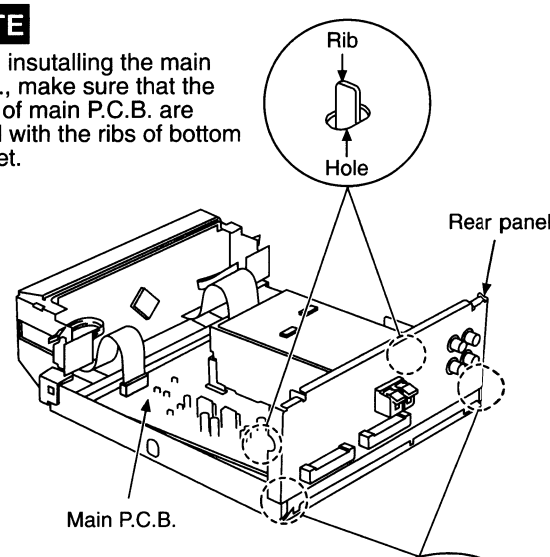
2. Checking for the main P.C.B.

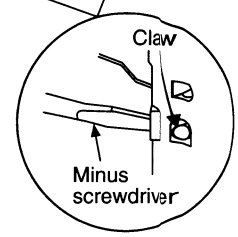
· Follow Step 1 ~ Step 3 in item 1.



NOTE

When insutalling the main P.C.B., make sure that the holes of main P.C.B. are alined with the ribs of bottom cabinet.





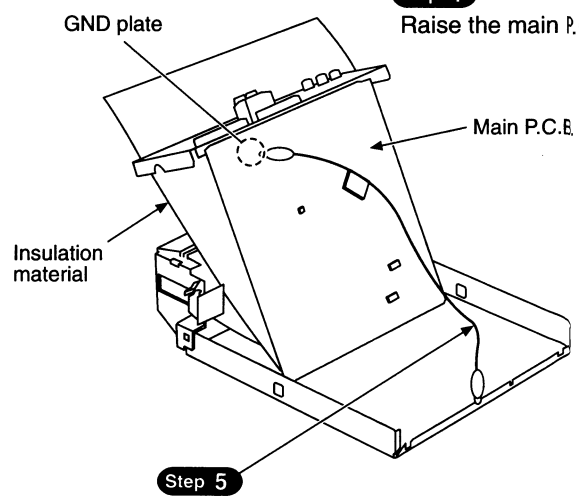
Step 3

Release the 2 claws, and then remove the main P.C.B. and rear panel.

· Check the main P.C.B. as shown below.

Step 4

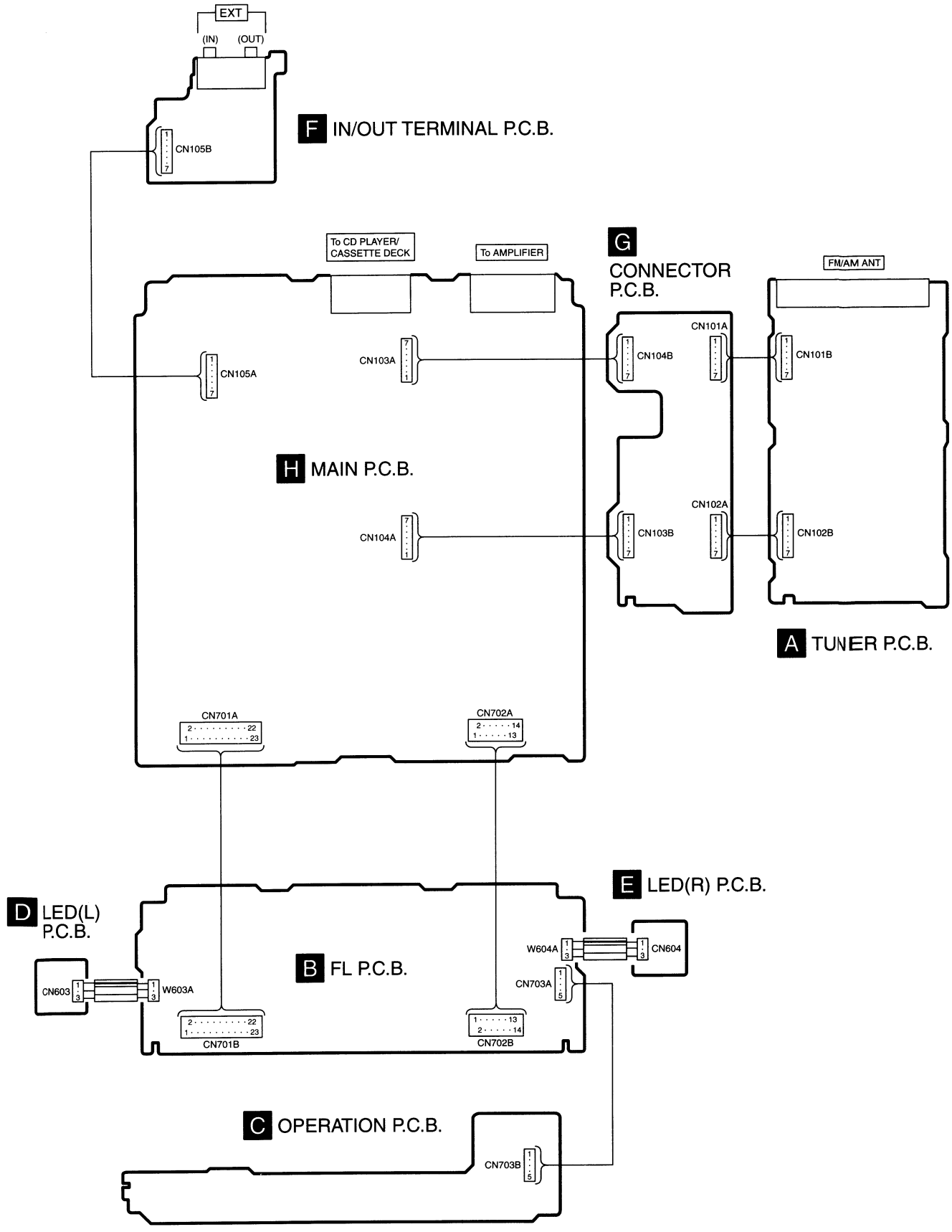
Raise the main P.C.B..



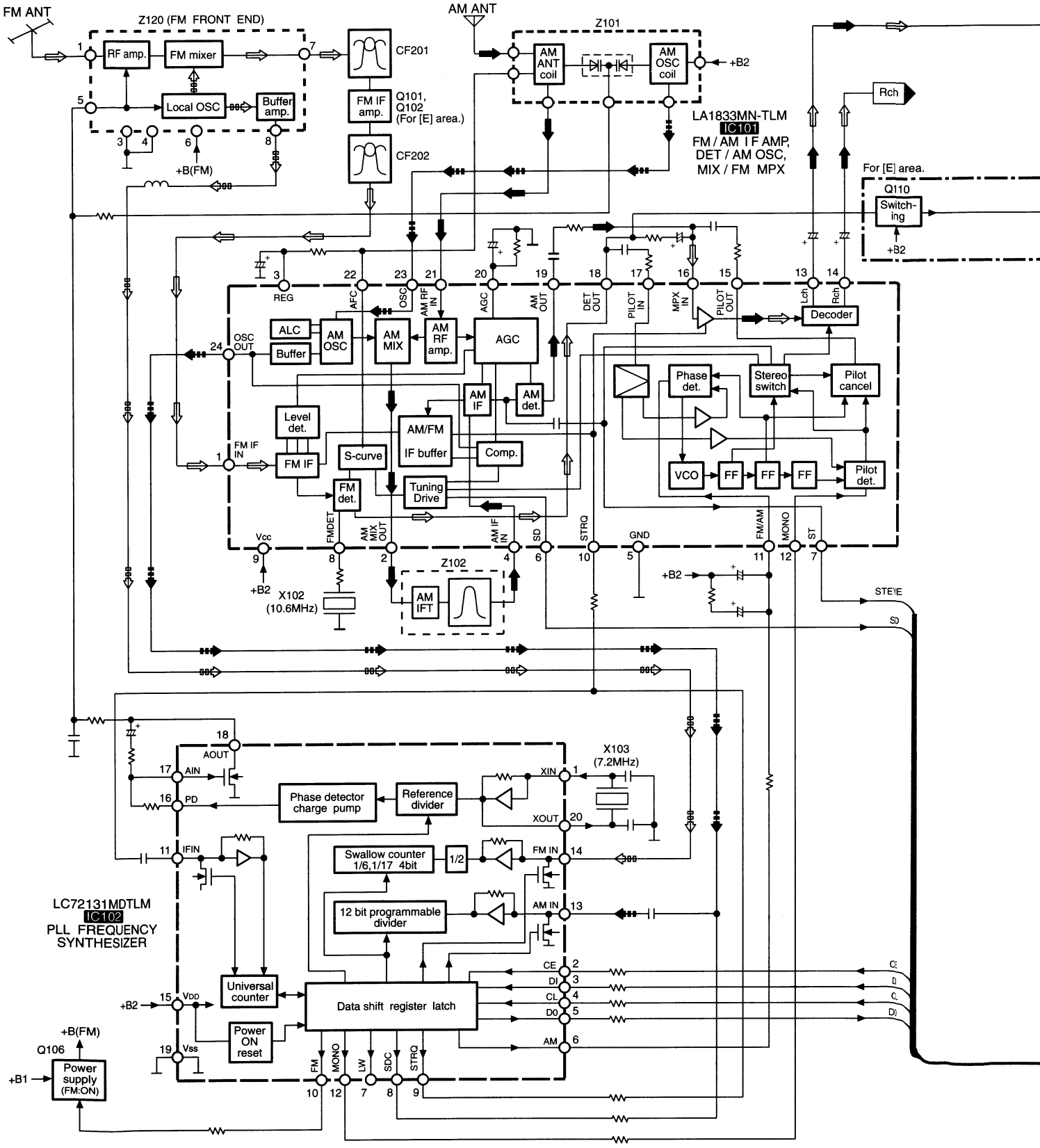
Step 5

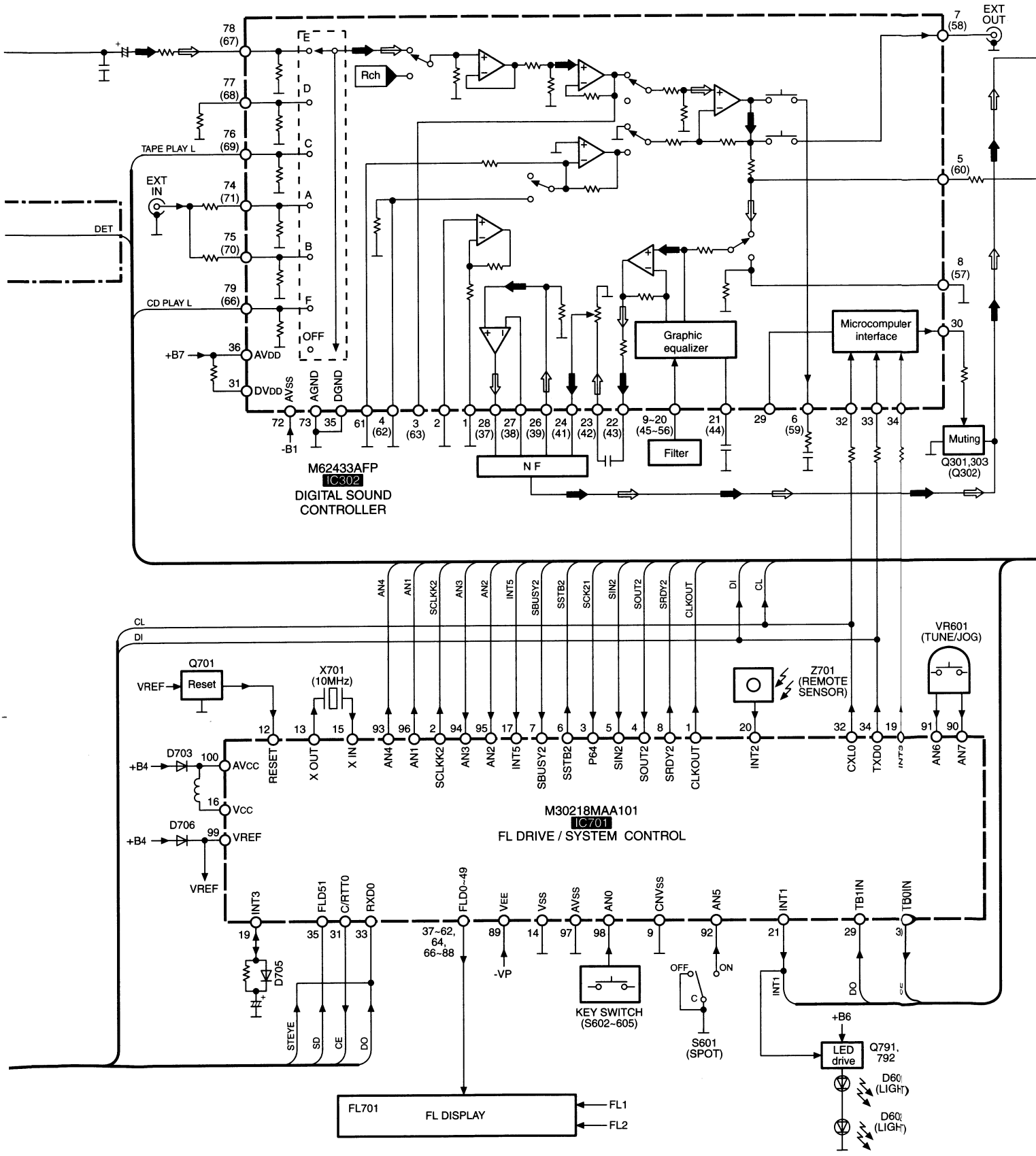
Connect the lead wire.

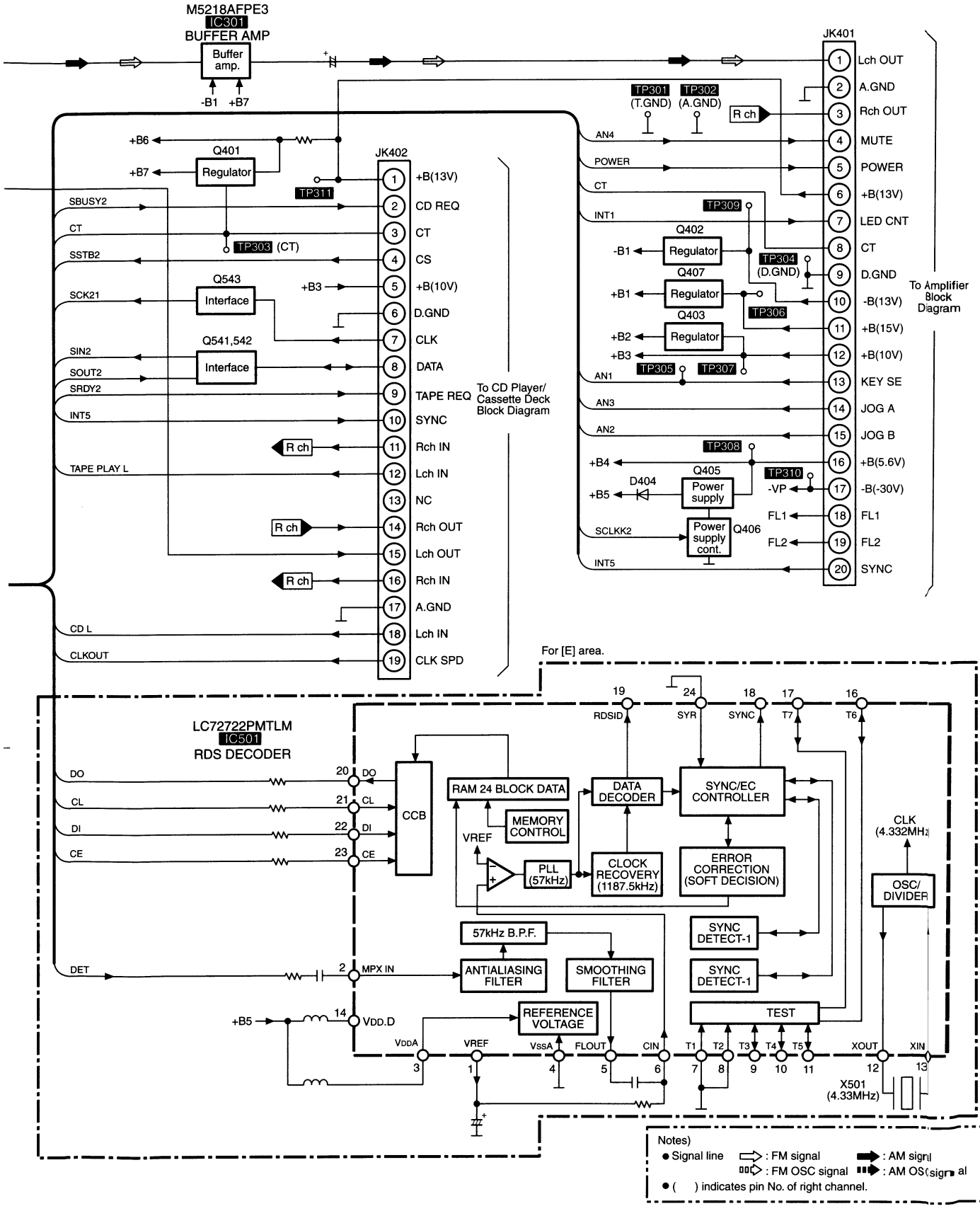
7 Wiring Connection Diagram



8 Block Diagram




EXT OUT
Rch
TAPE PLAY L
EXT IN
DET
CD PLAY L
+B7
-B1
OFF
AVDD
DVDD
AVSS
AGND
DGND
Graphic equalizer
Microcomputer interface
Muting
Q301,303 (Q302)
Filter
N F
M62433AFP
IC302
DIGITAL SOUND CONTROLLER
CL
DI
Q701
VREF
Reset
X701 (10MHz)
VR601 (TUNE/JOG)
Z701 (REMOTE SENSOR)
D703
D706
+B4
AVCC
VCC
VREF
RESET
X OUT
X IN
M30218MAA101
IC701
FL DRIVE / SYSTEM CONTROL
D705
STEYE
SD
CE
DO
FLD0~49
VEE
-VP
VSS
AVSS
AN0
CNVSS
AN5
KEY SWITCH (S602~605)
S601 (SPOT)
INT1
TB1IN
TB0IN
+B6
LED drive
Q791, 792
FL701
FL DISPLAY
FL1
FL2


M5218AFPE3
IC301
BUFFER AMP
Buffer amp.
-B1 +B7
JK401
Lch OUT
A.GND
Rch OUT
MUTE
POWER
+B(13V)
LED CNT
CT
D.GND
-B(13V)
+B(15V)
+B(10V)
KEY SE
JOG A
JOG B
+B(5.6V)
-B(-30V)
FL1
FL2
SYNC
To Amplifier Block Diagram
TP301 (T.GND)
TP302 (A.GND)
R ch
AN4
POWER
CT
INT1
TP309
Q402
-B1
Regulator
TP304 (D.GND)
Q407
+B1
Regulator
TP306
Q403
+B2
Regulator
+B3
TP305
TP307
AN1
AN3
AN2
TP308
+B4
Q405
D404
+B5
Power supply
TP310
-VP
SCLKK2
Power supply cont.
Q406
FL1
FL2
INT5
+B6
Q401
+B7
Regulator
TP311
JK402
+B(13V)
CD REQ
CT
CS
+B(10V)
D.GND
CLK
DATA
TAPE REQ
SYNC
Rch IN
Lch IN
NC
Rch OUT
Lch OUT
Rch IN
A.GND
Lch IN
CLK SPD
SBUSY2
CT
TP303 (CT)
SSTB2
Q543
Interface
+B3
SCK21
Q541,542
Interface
SIN2
SOUT2
SRDY2
INT5
R ch
TAPE PLAY L
R ch
R ch
CD L
CLKOUT
To CD Player/ Cassette Deck Block Diagram
For [E] area.
LC72722PMTLM
IC501
RDS DECODER
DO
CL
DI
CE
DET
+B5
20 DO
21 CL
22 DI
23 CE
2 MPX IN
14 VDD.D
CCB
RAM 24 BLOCK DATA
MEMORY CONTROL
VREF
PLL (57kHz)
DATA DECODER
CLOCK RECOVERY (1187.5kHz)
SYNC/EC CONTROLLER
ERROR CORRECTION (SOFT DECISION)
57kHz B.P.F.
ANTIALIASING FILTER
SMOOTHING FILTER
SYNC DETECT-1
SYNC DETECT-1
REFERENCE VOLTAGE
TEST
CLK (4.332MHz)
OSC/ DIVIDER
19 RDSID
24 SYR
18 SYNC
17 T7
16 T6
VDDA 3
VREF 1
VSSA 4
FLOUT 5
CIN 6
T1 7
T2 8
T3 9
T4 10
T5 11
XOUT 12
XIN 13
X501 (4.33MHz)
Notes)
● Signal line
: FM signal
: AM signal
: FM OSC signal
: AM OSC signal
● ( ) indicates pin No. of right channel.

9 Schematic Diagram Notes

9.1. Schematic Diagram Notes

• This schematic diagram may be modified at any time with development of new technology.

Notes:

- S601: Side light (SPOT) switch.
- S602: Tuning mode (TUNE MODE) switch.
- S603: Band select (BAND) switch .
- S604: Set (SET) switch .
- S605: Clock/Timer (CLOCK/TIMER) switch.
- VR601: Station selection and JOG (TUNE/JOG) dial.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark: FM mode

( ): AM mode

Important safety notice:

Components identified by ⚠ mark have special characteristics impotant for safety.

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

Voltage and signal line

: Positive voltage line

: FM signal line

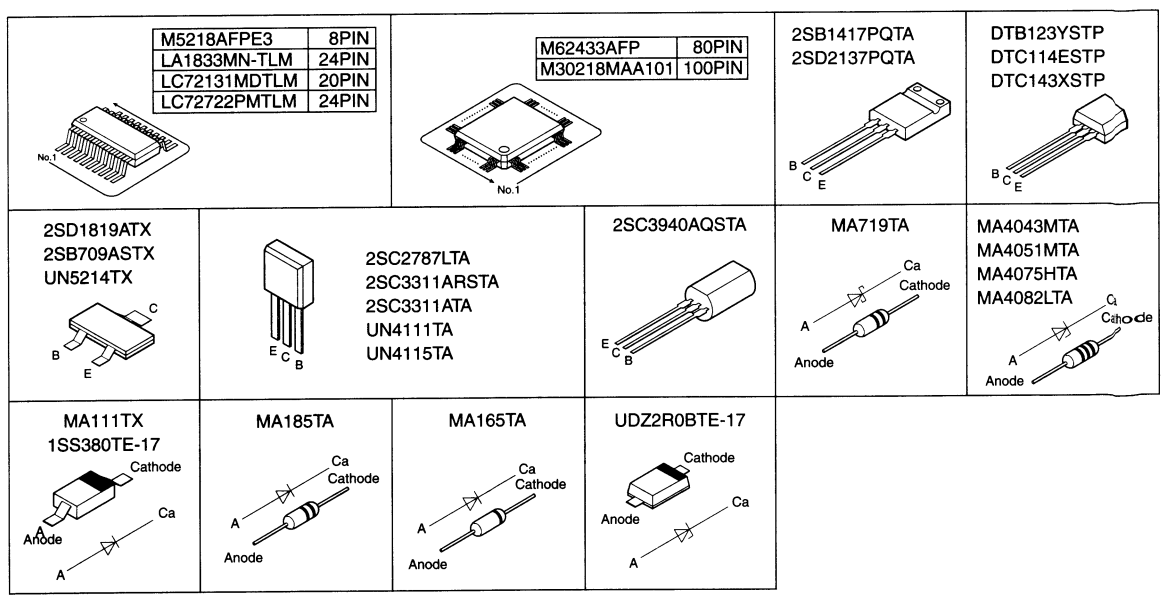
: AM signal line

: Negative voltage line

: FM OSC signal line

: AM OSC signal line

9.2. Type Illustration of IC's Transistors and Diodes



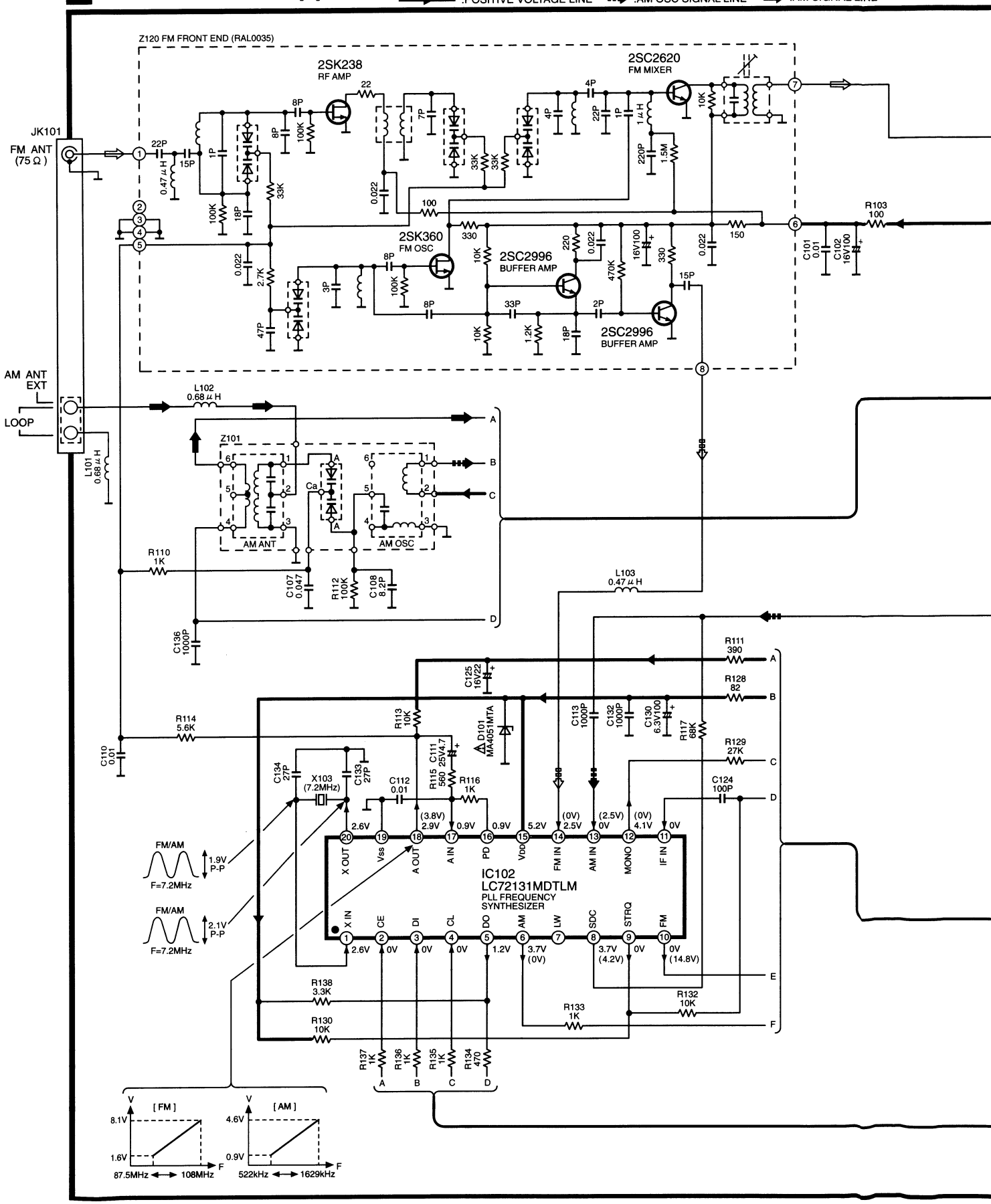
10 Schematic Diagram

SCHEMATIC DIAGRAM-1

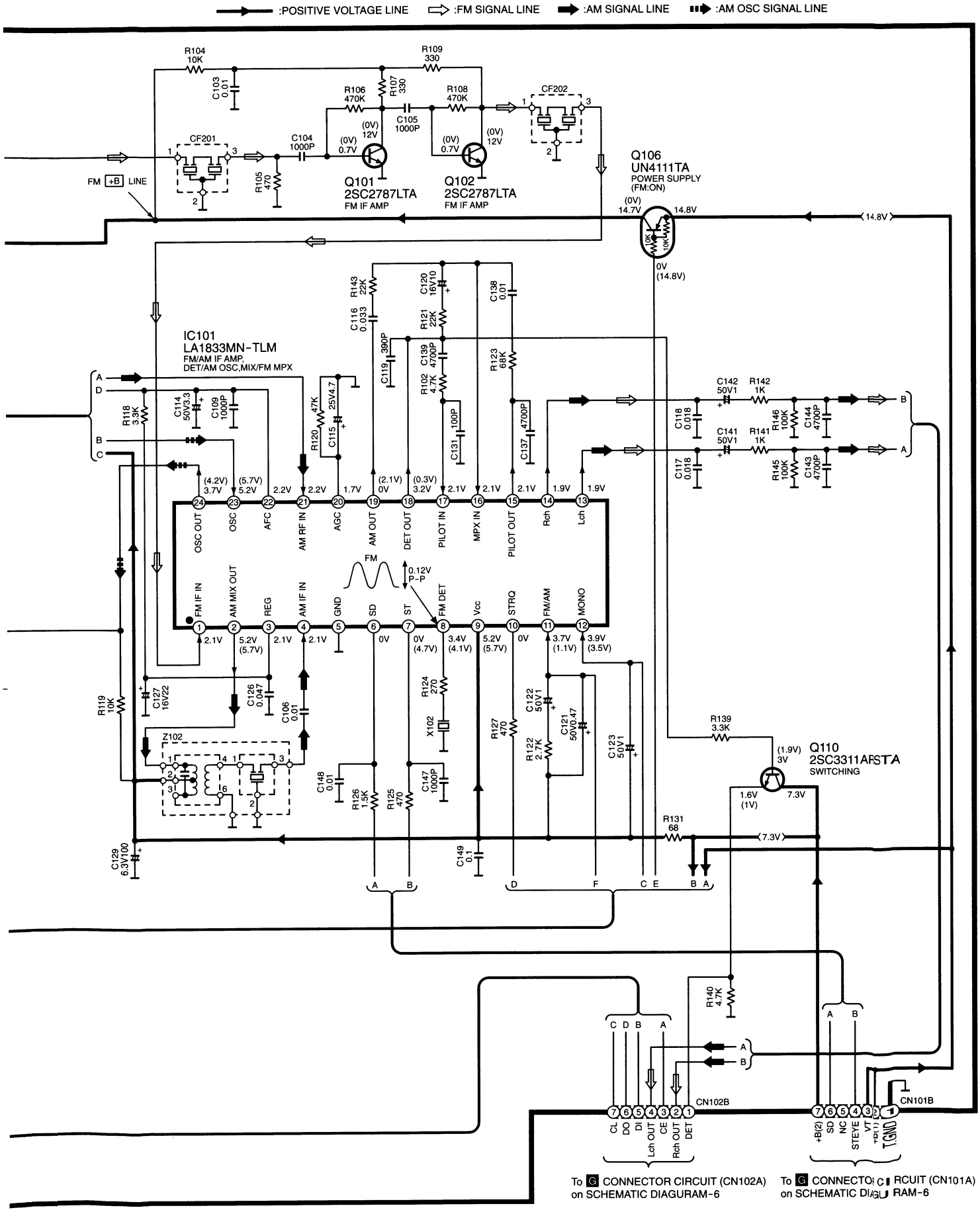
NOTE:
The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

A TUNER CIRCUIT For [E] area.

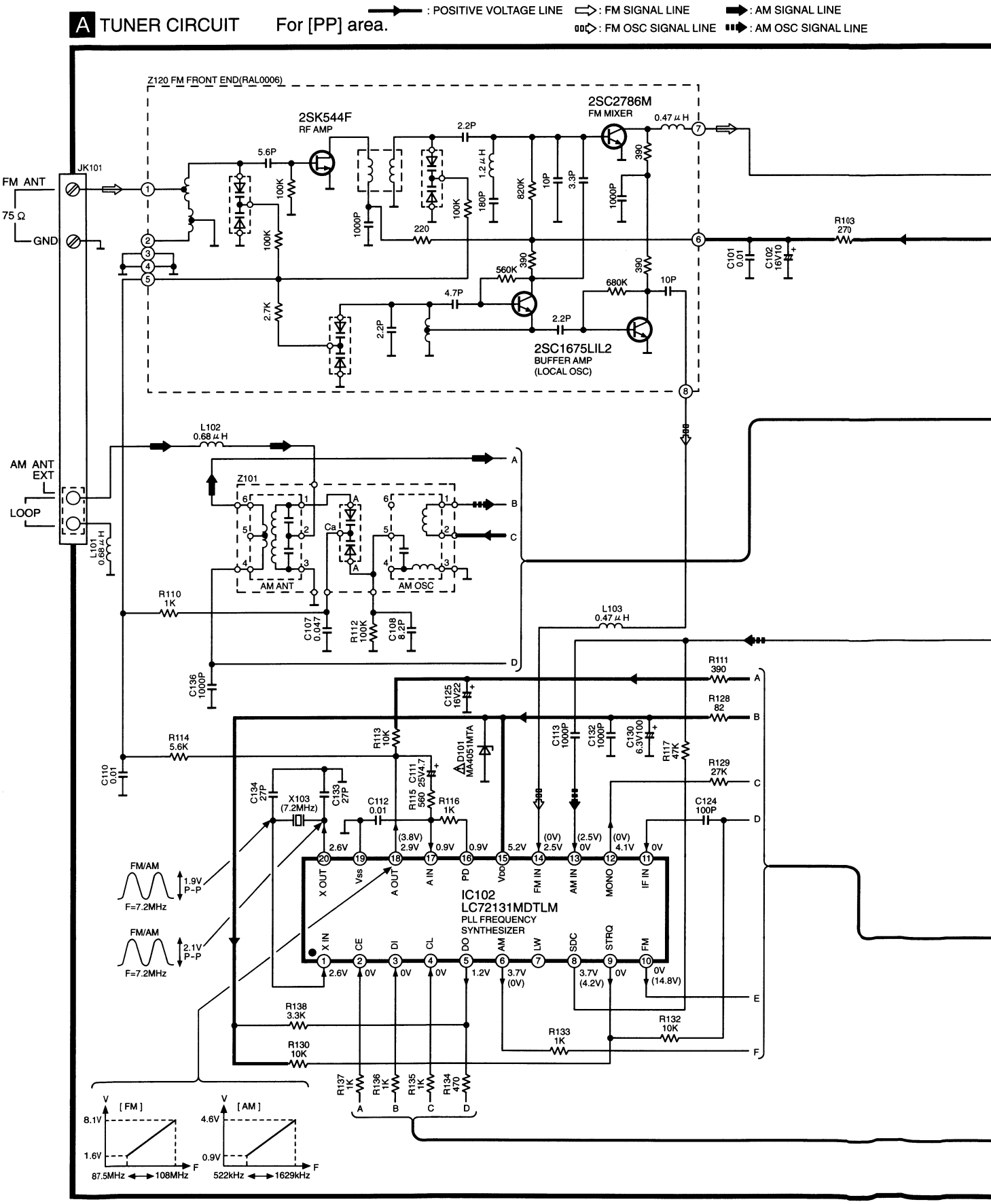
:POSITIVE VOLTAGE LINE
:FM OSC SIGNAL LINE
:AM OSC SIGNAL LINE
:FM SIGNAL LINE
:AM SIGNAL LINE



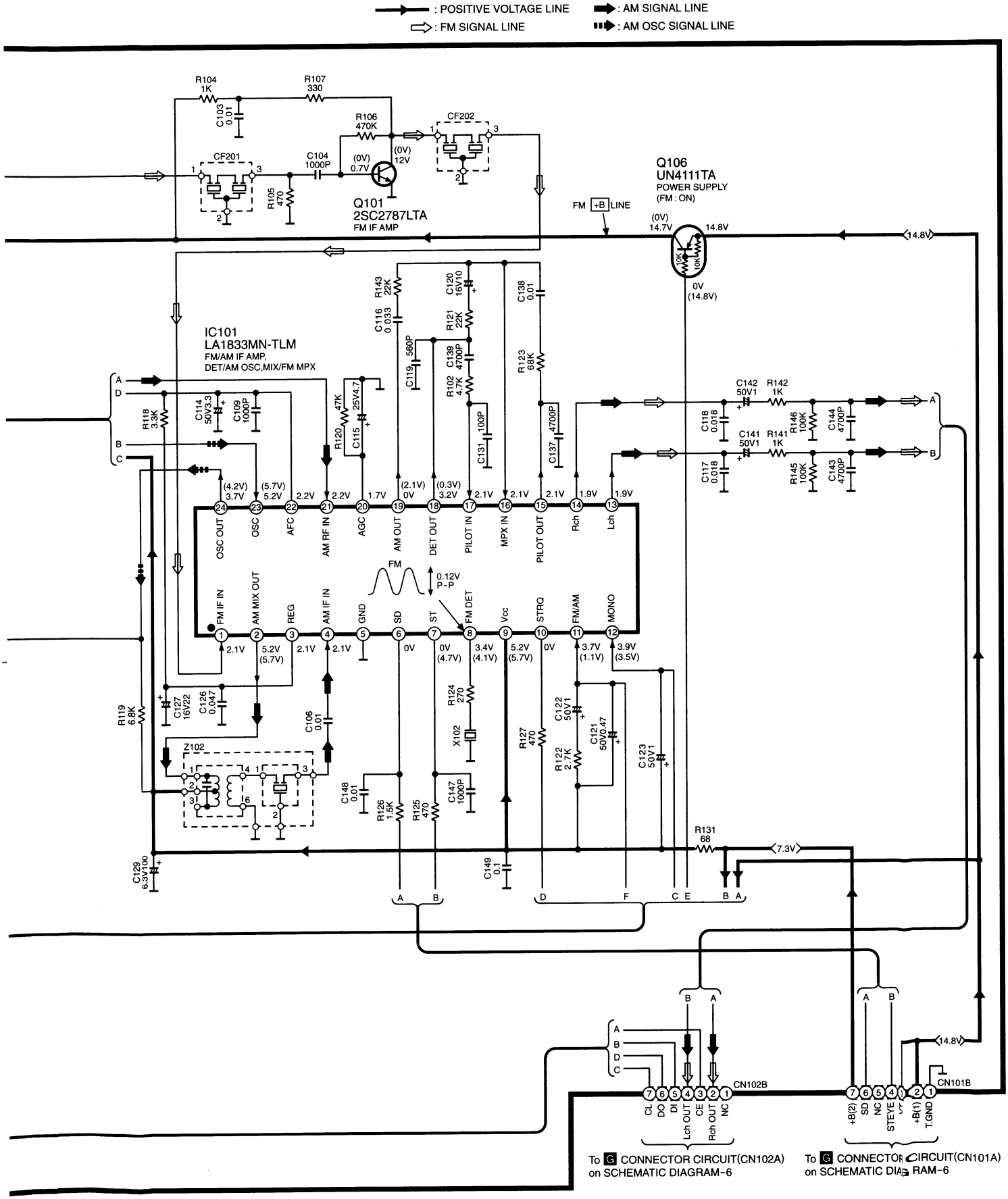
SCHEMATIC DIAGRAM-2



SCHEMATIC DIAGRAM-3



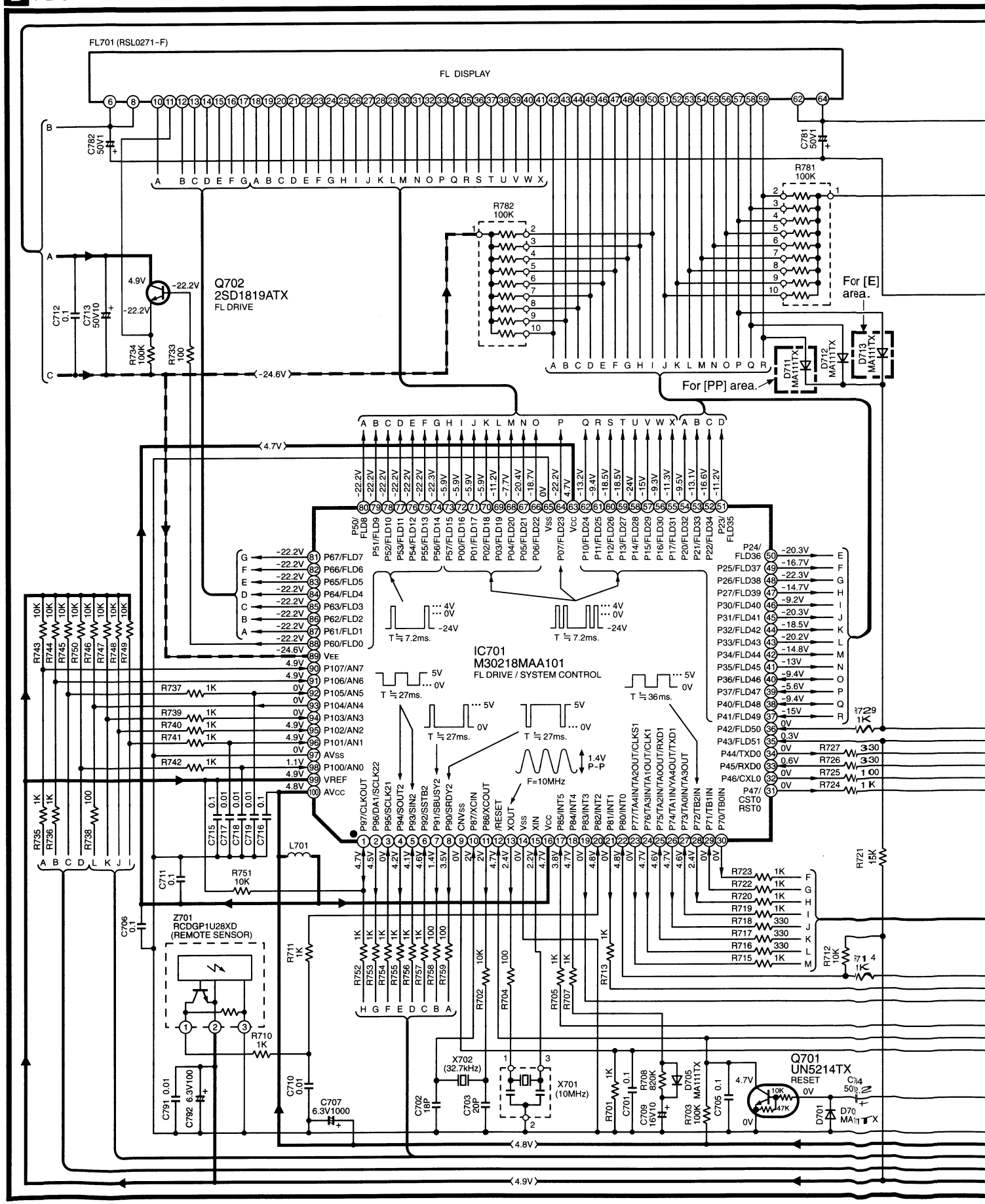
SCHEMATIC DIAGRAM-4



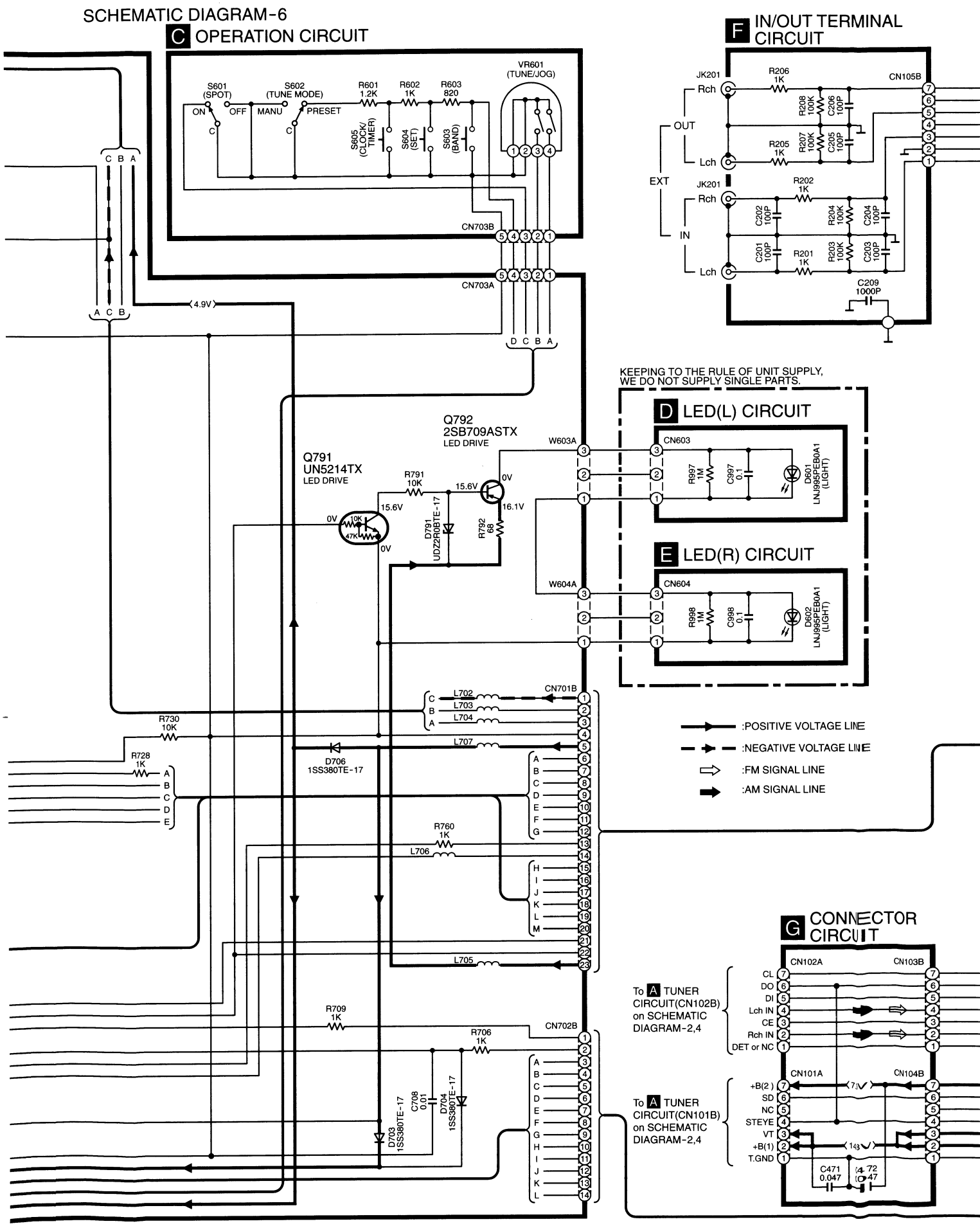
SCHEMATIC DIAGRAM-5

B FL CIRCUIT

:POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE



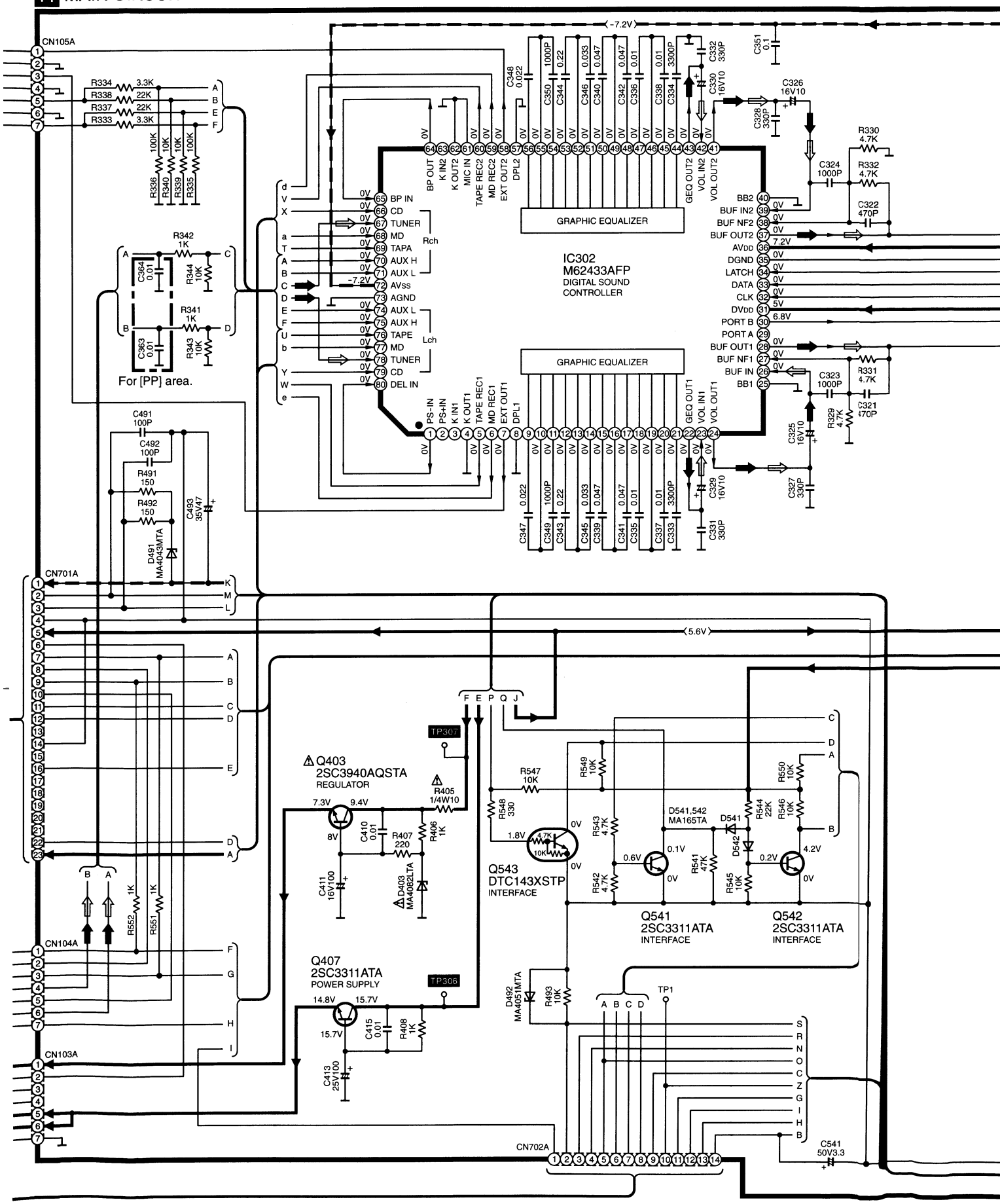
SCHEMATIC DIAGRAM-6



SCHEMATIC DIAGRAM-7

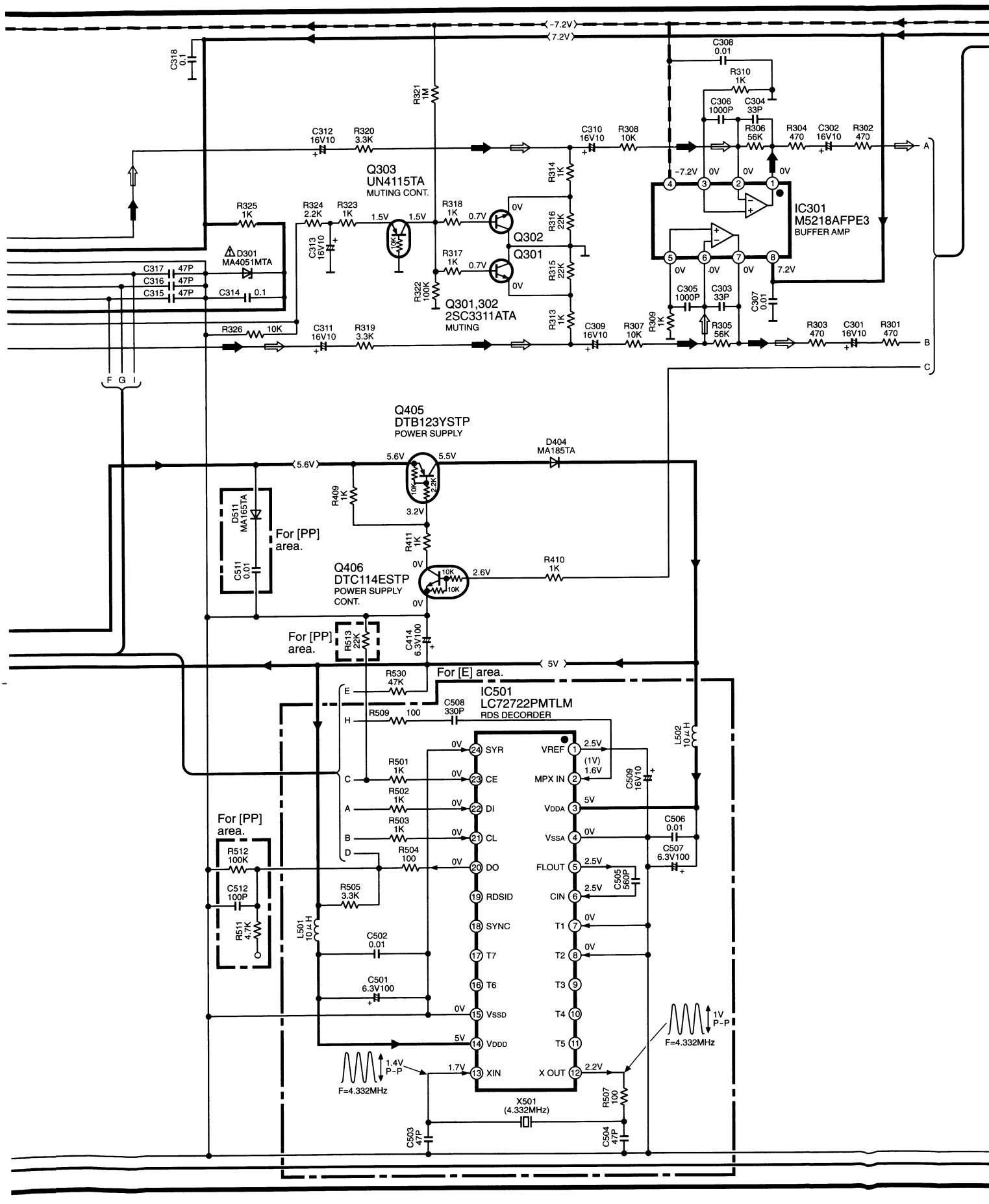
H MAIN CIRCUIT

:POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE :FM SIGNAL LINE :AM SIGNAL LINE



SCHEMATIC DIAGRAM-8

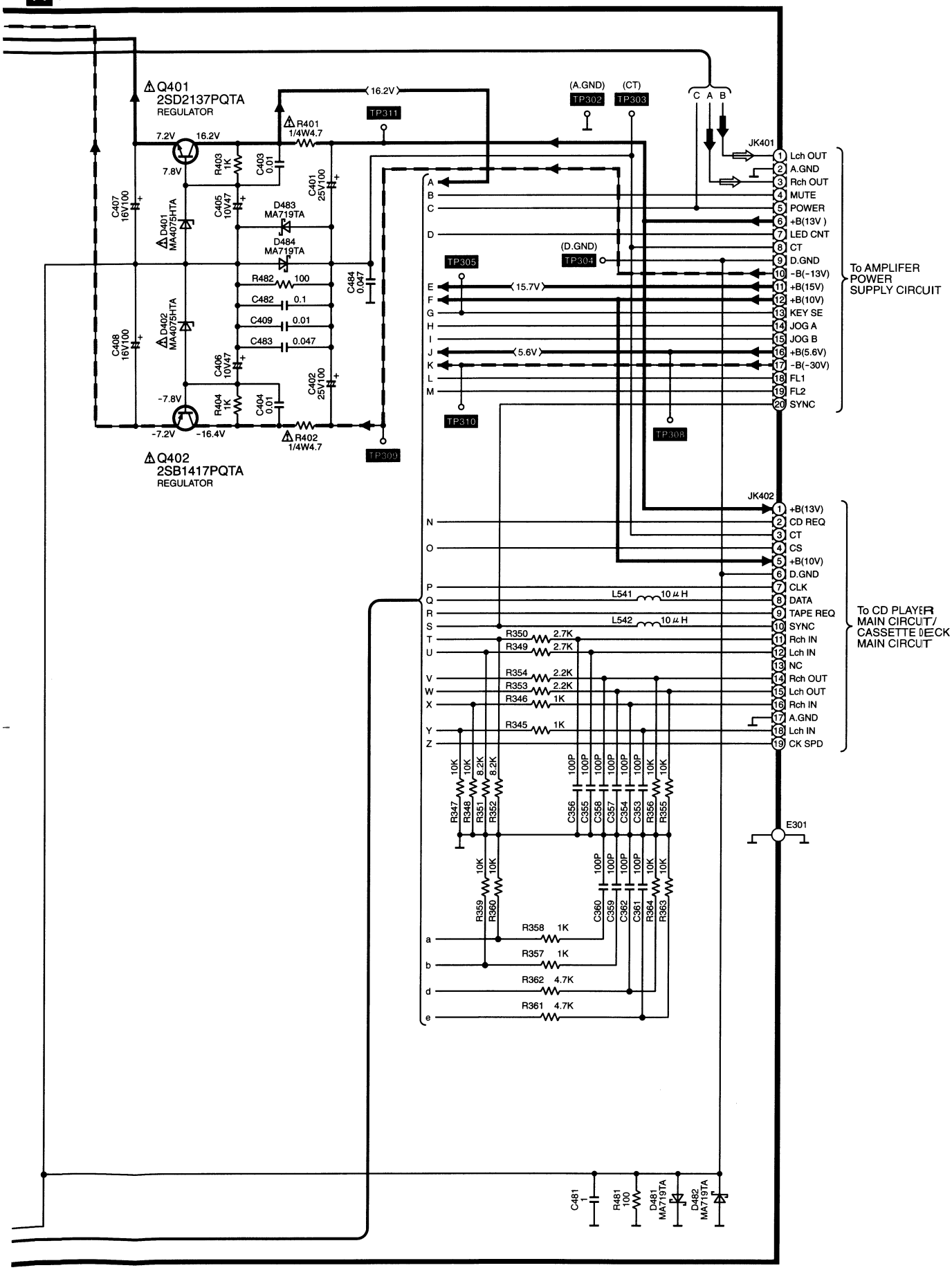
:POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE :FM SIGNAL LINE :AM SIGNAL LINE



SCHEMATIC DIAGRAM-9

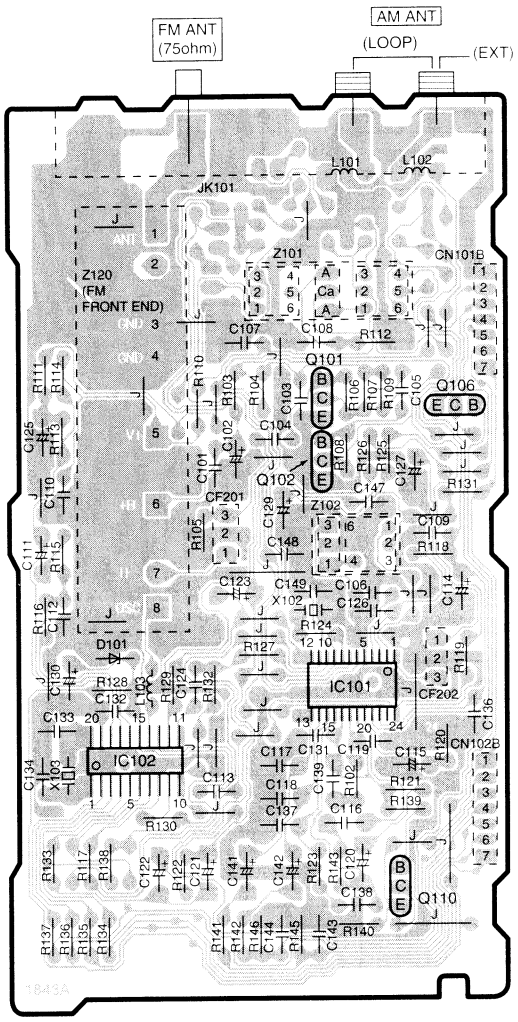
H MAIN CIRCUIT

:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:FM SIGNAL LINE
:AM SIGNAL LINE



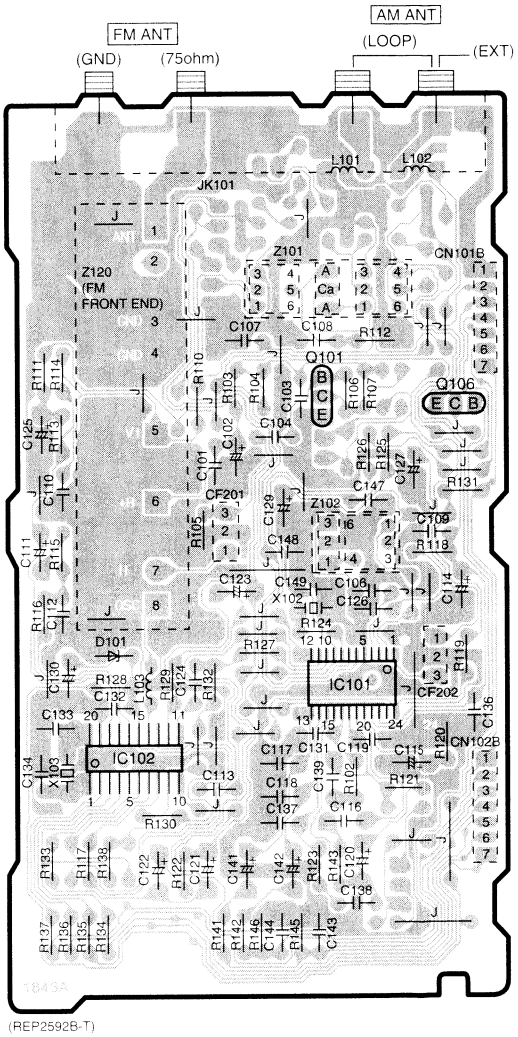
11 Printed Circuit Board Diagram

A TUNER P.C.B. For [E] area.



(REP2592C-T)

A TUNER P.C.B. For [PP] area.

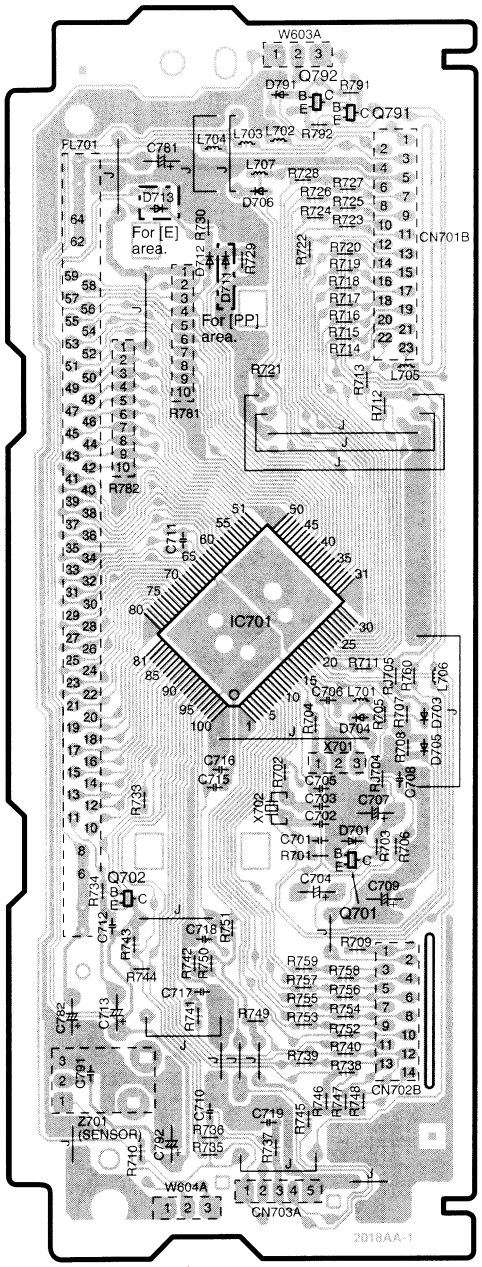


(REP2592B-T)

■ ELECTRICAL PARTS LOCATION

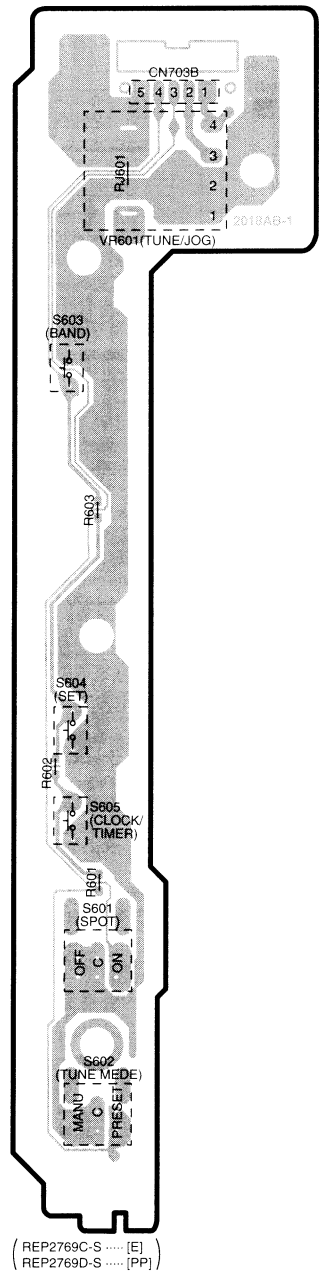
Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
A TUNER P.C.B. For [E] area.															
IC101	4C	CF202	4C	R110	3B	R124	4B	R138	5A	C107	2B	C121	5B	C137	5B
IC102	4B	X102	4B	R111	3A	R125	3C	R139	5C	C108	2B	C122	5B	C138	5C
Q101	3B	X103	4A	R112	2C	R126	3C	R140	5C	C109	3C	C123	4B	C139	4B
Q102	3B	CN101B	2C	R113	3A	R127	4B	R141	5B	C110	3A	C124	4B	C141	5B
Q106	3C	CN102B	5C	R114	3A	R128	4A	R142	5B	C111	3A	C125	3A	C142	5B
Q110	5C	JK101	2B	R115	3A	R129	4B	R143	5B	C112	4A	C126	4C	C143	5B
D101	4A	R102	4C	R116	4A	R130	5B	R145	5B	C113	4B	C127	3C	C144	5B
L101	2C	R103	3B	R117	5A	R131	3C	R146	5B	C114	4C	C129	3B	C147	3C
L102	2C	R104	3B	R118	3C	R132	4B	C101	3B	C115	4C	C130	4A	C148	3B
L103	4B	R105	3B	R119	4C	R133	5A	C102	3B	C116	5B	C131	4B	C149	4B
Z101	2B	R106	3C	R120	4C	R134	5A	C103	3B	C117	4B	C132	4A		
Z102	3C	R107	3C	R121	4C	R135	5A	C104	3B	C118	5B	C133	4A		
Z120	2A	R108	3C	R122	5B	R136	5A	C105	3C	C119	4C	C134	4A		
CF201	3B	R109	3C	R123	5B	R137	5A	C106	4C	C120	5C	C136	4C		
A TUNER P.C.B. For [PP] area.															
IC101	4E	X102	4E	R112	2F	R125	3F	R138	5D	C109	3F	C122	5E	C137	5E
IC102	4D	X103	4D	R113	3D	R126	3F	R141	5E	C110	3D	C123	4E	C138	5E
Q101	3E	CN101B	2F	R114	3D	R127	4E	R142	5F	C111	3D	C124	4E	C139	4E
Q106	3F	CN102B	5F	R115	3D	R128	4D	R143	5E	C112	4D	C125	3D	C141	5E
D101	4D	JK101	2E	R116	4D	R129	4E	R145	5E	C113	4E	C126	4F	C142	5E
L101	2E	R102	4E	R117	5D	R130	5E	R146	5E	C114	4F	C127	3F	C143	5E
L102	2F	R103	3E	R118	3F	R131	3F	C101	3E	C115	4F	C129	3E	C144	5E
L103	4E	R104	3E	R119	4F	R132	4E	C102	3E	C116	5E	C130	4D	C147	3F
Z101	2E	R105	3E	R120	4F	R133	5D	C103	3E	C117	4E	C131	4E	C148	3E
Z102	3E	R106	3E	R121	4F	R134	5D	C104	3E	C118	5E	C132	4D	C149	4E
Z120	2D	R107	3F	R122	5E	R135	5D	C106	4F	C119	4F	C133	4D		
CF201	3E	R110	3E	R123	5E	R136	5D	C107	2E	C120	5E	C134	4D		
CF202	4F	R111	3D	R124	4E	R137	5D	C108	2E	C121	5E	C136	4F		

B FL P.C.B.



(REP2769C-S ..... [E]
REP2769D-S ..... [PP])

C OPERATION P.C.B.



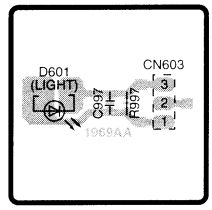
(REP2769C-S ..... [E]
REP2769D-S ..... [PP])

■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
B FL P.C.B.			
IC701	4B	R729	2B
Q701	5B	R730	2B
Q702	5A	R733	5A
Q791	1B	R734	5A
Q792	1B	R735	6B
D701	5B	R736	6B
D703	4C	R737	6B
D704	4B	R738	6B
D705	4C	R739	6B
D706	2B	R740	6B
D711	2B	R741	6B
D712	2B	R742	5B
D713	2B	R743	5A
D791	1B	R744	5A
L701	4B	R745	6B
L702	2B	R746	6B
L703	2B	R747	6B
L704	2B	R748	6B
L705	3C	R749	6B
L706	4C	R750	5B
L707	2B	R751	5B
Z701	6A	R752	6B
X701	4B	R753	6B
X702	5B	R754	6B
FL701	2A	R755	5B
CN701B	2C	R756	5B
CN702B	6C	R757	5B
CN703A	6B	R758	5B
W603A	1B	R759	5B
W604A	6B	R760	4C
R701	5B	R781	2B
R702	4B	R782	3A
R703	5C	R791	1B
R704	4B	R792	2B
R705	4C	RJ704	4C
R706	5C	RJ705	4C
R707	4C	C701	5B
R708	4C	C702	5B
R709	5B	C703	5B
R710	6A	C704	5B
R711	4B	C705	4B
R712	3C	C706	4B
R713	3B	C707	5C
R714	3B	C708	4C
R715	2B	C709	5C
R716	2B	C710	6B
R717	2B	C711	3B
R718	2B	C712	5A
R719	2B	C713	6A
R720	2B	C715	4B
R721	3B	C716	4B
R722	2B	C717	5B
R723	2B	C718	5B
R724	2B	C719	6B
R725	2B	C781	2B
R726	2B	C782	6A
R727	2B	C791	6A
R728	2B	C792	6B
C OPERATION P.C.B.			
VR601	2D	CN703B	1D
S601	5D	R601	5D
S602	6D	R602	4D
S603	3D	R603	3D
S604	4D	RJ601	2D
S605	5D		
D LED(L) P.C.B.			
D601	8B	R997	8C
CN603	8C	C997	8C
E LED(R) P.C.B.			
D602	8D	R998	8D
CN604	8D	C998	8D

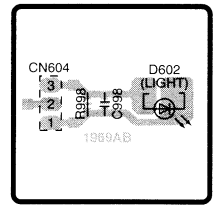
[Keeping to the rule of unit supply, we do not supply single parts.]

D LED(L)P.C.B.

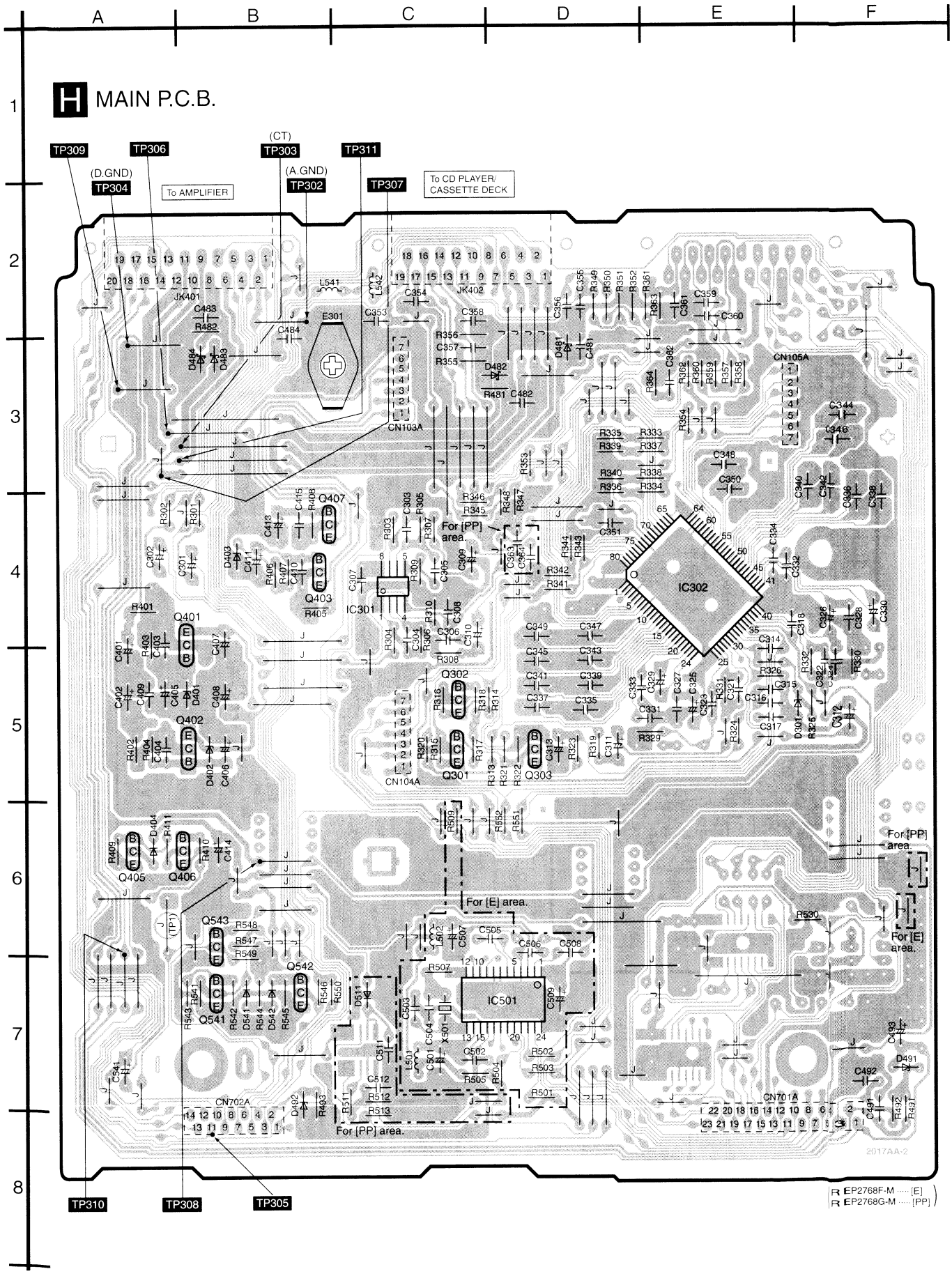


(REP2683A-S)

E LED(R)P.C.B.

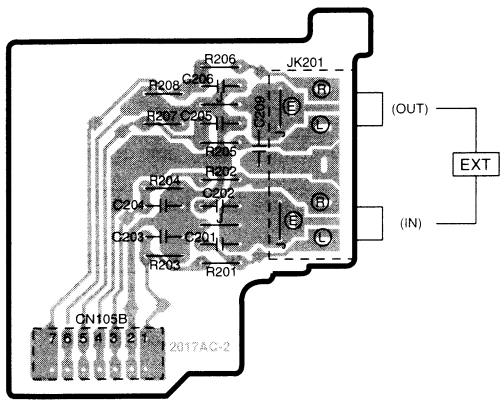


(REP2683A-S)


H MAIN P.C.B.
TP309
TP306
(CT)
TP303
TP311
(D.GND)
TP304
To AMPLIFIER
(A.GND)
TP302
TP307
To CD PLAYER/
CASSETTE DECK
JK401
JK402
L541
L542
E301
CN103A
CN105A
IC301
IC302
IC501
Q301
Q302
Q303
Q401
Q402
Q403
Q405
Q406
Q407
Q541
Q542
Q543
CN104A
CN701A
CN702A
For [PP] area.
For [E] area.
TP310
TP308
TP305
2017AA-2
EP2768F-M ..... [E]
EP2768G-M ..... [PP]

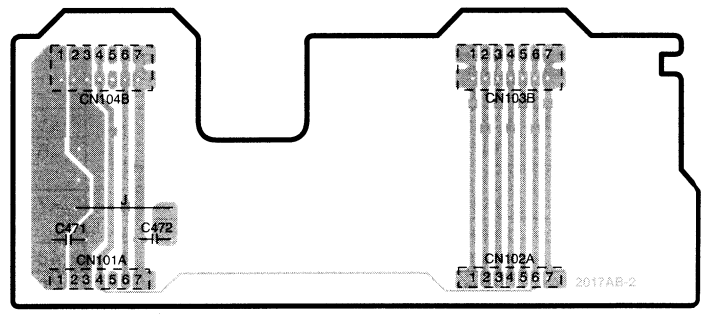
G H I J K L

F IN/OUT TERMINAL P.C.B.



(REP2768F-M ..... [E]
REP2768G-M ..... [PP])

G CONNECTOR P.C.B.



(REP2768F-M ..... [E]
REP2768G-M ..... [PP])

■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
F IN/OUT TERMINAL P.C.B.											
CN105B	3G	R202	2H	R205	2H	R208	2G	C203	2G	C206	2H
JK201	2H	R203	2G	R206	1H	C201	2H	C204	2G	C209	2H
R201	2H	R204	2G	R207	2G	C202	2H	C205	2H		
G CONNECTOR P.C.B.											
CN101A	2J	CN102A	2K	CN103B	1K	CN104B	1J	C471	2J	C472	2J
H MAIN P.C.B.											
IC301	4C	E301	3C	R334	3E	R411	6A	C313	5D	C357	3C
IC302	4E	(TP1)	6A	R335	3D	R481	3D	C314	5E	C358	2C
IC501	7D	TP302	2B	R336	3D	R482	2B	C315	5E	C359	2E
Q301	5C	TP303	3B	R337	3E	R491	7F	C316	5E	C360	2E
Q302	5C	TP304	3A	R338	3E	R492	7F	C317	5E	C361	2E
Q303	5D	TP305	8B	R339	3D	R493	7B	C318	4E	C362	3E
Q401	4B	TP306	3A	R340	3D	R501	7D	C321	5E	C363	4D
Q402	5B	TP307	3A	R341	4D	R502	7D	C322	5F	C364	4D
Q403	4B	TP308	6B	R342	4D	R503	7D	C323	5E	C401	5A
Q405	6A	TP309	3A	R343	4D	R504	7D	C324	5F	C402	5A
Q406	6B	TP310	6A	R344	4D	R505	7C	C325	5E	C403	4A
Q407	4B	TP311	3B	R345	4C	R507	7C	C326	4F	C404	5A
Q541	7B	R301	4B	R346	4C	R509	6C	C327	5E	C405	5A
Q542	7B	R302	4A	R347	4D	R511	7C	C328	4F	C406	5B
Q543	6B	R303	4C	R348	4D	R512	7C	C329	5E	C407	4B
D301	5F	R304	4C	R349	2D	R513	8C	C330	4F	C408	5B
D401	5B	R305	4C	R350	2D	R530	6F	C331	5E	C409	5A
D402	5B	R306	4C	R351	2D	R541	7B	C332	4E	C410	4B
D403	4B	R307	4C	R352	2D	R542	7B	C333	5D	C411	4B
D404	6A	R308	5C	R353	3D	R543	7B	C334	4E	C413	4B
D481	3D	R309	4C	R354	3E	R544	7B	C335	5D	C414	6B
D482	3D	R310	4C	R355	3C	R545	7B	C336	4F	C415	4B
D483	3B	R313	5D	R356	2C	R546	7B	C337	5D	C481	3D
D484	3B	R314	5D	R357	3E	R547	6B	C338	4F	C482	3D
D491	7F	R315	5C	R358	3E	R548	6B	C339	5D	C483	2B
D492	7B	R316	5C	R359	3E	R549	6B	C340	3F	C484	2B
D511	7C	R317	5C	R360	3E	R550	7B	C341	5D	C491	7F
D541	7B	R318	5C	R361	2E	R551	6D	C342	3F	C492	7F
D542	7B	R319	5D	R362	3E	R552	6D	C343	5D	C493	7F
L501	7C	R320	5C	R363	2E	C301	4B	C344	3F	C501	7C
L502	6C	R321	5D	R364	3E	C302	4A	C345	5D	C502	7C
L541	2B	R322	5D	R401	4A	C303	4C	C346	3F	C503	7C
L542	2C	R323	5D	R402	5A	C304	4C	C347	4D	C504	7C
X501	7C	R324	5E	R403	4A	C305	4C	C348	3E	C505	6D
CN103A	3C	R325	5F	R404	5A	C306	4C	C349	4D	C506	6D
CN104A	5C	R326	5E	R405	4B	C307	4C	C350	3E	C507	6C
CN105A	3E	R329	5E	R406	4B	C308	4C	C351	4D	C508	6D
CN701A	8E	R330	5F	R407	4B	C309	4C	C353	2C	C509	7D
CN702A	8B	R331	5E	R408	4B	C310	4C	C354	2C	C511	7C
JK401	2B	R332	5F	R409	6A	C311	5D	C355	2D	C512	7C
JK402	2C	R333	3E	R410	6B	C312	5F	C356	2D	C541	7A

12 Terminal Function of IC's

12.1. IC302(M62433AFP): DIGITAL SOUND CONTROLLER

Pin No.	Mark	I/O Division	Function
1	PS-IN	O	R/L output terminal for surround
2	PS+IN	I	Phase shift filter input terminal for surround (Not used, open)
3	KIN1	O	Key control adaptor output terminal (Not used, open)
4	KOUT1	I	Key control adaptor input terminal (Not used, connected to GND)
5	TAPEREC1	O	Rec signal output terminal from surround mix amp. terminal
6	MDREC1	O	Select common output rec signal output terminal
7	EXT OUT1		
8	DPL1	I	Tone signal input terminal (Not used, connected to GND)
9	F1F1	I	Resonance impedance connect terminal
10	F1O1	O	Resonance buffer amp output terminal
11	FIN1	I	Resonance buffer amp input terminal
12	F2F1	I	Resonance impedance connect terminal
13	F2O1	O	Resonance buffer amp output terminal
14	F2IN1	I	Resonance buffer amp input terminal
15	F3F1	I	Resonance impedance connect terminal
16	F3O1	O	Resonance buffer amp output terminal
17	F3IN1	I	Resonance buffer amp input terminal
18	F4F1	I	Resonance impedance connect terminal
19	F4O1	O	Resonance buffer amp output terminal
20	F4IN1	I	Resonance buffer amp input terminal
21	F5F1	I	Band pass filter connect terminal (Connected to GND through capacitor)
22	GEQOUT1	O	Tone signal output terminal
23	VOLIN1	I	R ladder volume input terminal
24	VOLOUT1	O	R ladder volume output terminal
25	BB1	—	Bass boost capacity connection terminal(Not used, connected to GND)
26	BUFIN	I	Bass boost amp (+) input terminal
27	BUFNF1	I	Bass boost amp (-) input terminal
28	BUFOUT1	O	Bass boost amp output terminal
29	PORTA	O	Port A output terminal (Not used, open)
30	PORTB	O	Port B output terminal
31	DV_{DD}	I	Power supply terminal
32	CLK	I	Clock input terminal for serial data transfer
33	DATA	I	Control data input terminal
34	LATCH	I	Latch signal input terminal
35	DGND	—	GND terminal
36	AV_{DD}	I	Power supply terminal
37	BUFOUT2	O	Bass boost amp output terminal
38	BUFNF2	I	Bass boost amp (-) input terminal
39	BUFIN2	I	Bass boost amp (+) input terminal
40	BB2	I	Bass boost capacity connection terminal(Not used, connected to GND)
41	VOLOUT2	O	R ladder volume output terminal
42	VOLIN2	I	R ladder volume input terminal
43	GEQOUT2	O	Tone signal output terminal
44	F5F2	I	Band pass filter connect terminal (Connected to GND through capacitor)
45	F4IN2	I	Resonance buffer amp input terminal
46	F4O2	O	Resonance buffer amp output terminal
47	F4F2	I	Resonance impedance connect terminal
48	F3IN2	I	Resonance buffer amp input terminal
49	F3O2	O	Resonance buffer amp output terminal
50	F3F2	I	Resonance impedance connect terminal
51	F2IN2	I	Resonance buffer amp input terminal
52	F2O2	O	Resonance buffer amp output terminal
53	F2F2	I	Resonance impedance connect terminal
54	F1IN2	I	Resonance buffer amp input terminal
55	F1O2	O	Resonance buffer amp output terminal
56	F1F2	I	Resonance impedance connect terminal
57	DPL2	I	Tone signal input terminal (Not used, connected to GND)
58	EXT OUT2	O	Select common output rec signal output terminal
59	MD REC2	O	
60	TAPE REC2	O	Rec signal output terminal from surround mix amp. terminal
61	MIC IN	I	Mic signal input terminal (Not used, connected to GND)
62	KOUT2	I	Key control adaptor input terminal (Not used, connected to GND)
63	KIN2	O	Key control adaptor output terminal (Not used, open)
64	BPOUT	O	Band pass filter amp output terminal for vocal cancel
65	BPIN	I	Band pass filter amp input terminal for vocal cancel
66	CD	I	Input terminal for Rch
67	TUNER		
68	MD		
69	TAPE		
70	AUXH		
71	AUXL		
72	AVSS	I	Power supply terminal
73	AGND	—	GND terminal
74	AUXL	I	Input terminal for Lch
75	AUXH		
76	TAPE		
77	MD		
78	TUNER		
79	CD		
80	DELIN	I	R/L input terminal for surround

12.2. IC701(M30218MAA101): FL DRIVE/SYSTEM CONTROL

Pin No.	Mark	I/O Division	Function
1	P97/ CLKOUT	I/O	Communication clock velocity terminal ("H": nomal, "L": CD-TEXT)
2	P96/DA1/ SCLK22	O	Clock output terminal for serial data transfer
3	P95/ SCLK21	I	CD & Tape communication clock input terminal
4	P94/ SOUT2	O	CD & Tape communication data output terminal
5	P93/SIN2	I	CD & Tape communication data input terminal
6	P92/ SSTB2	I	CD & Tape communication response input terminal
7	P91/ SBUSY2	O	CD communication request output terminal
8	P90/ SRDY2	O	Tape communication request output terminal
9	CNV_{SS}	—	GND terminal
10	P87/XCIN	I	Crystal oscillator connection terminal (f=32.7kHz)
11	P86/ XCOUT	O	
12	/RESET	I	Reset input terminal ("L": Micon reset)
13	XOUT	O	Main clock ceramic oscillator output terminal (f=10MHz)
14	VSS	—	GND teminal
15	XIN	I	Main clock ceramic oscillator input terminal (f=10MHz)
16	VCC	I	Power supply terminal
17	P85/INT5	I	Power failure detection input terminal
18	P84/INT4	I/O	CR timer terminal for watch backup
19	P83/INT3	O	Latch output terminal to IC302 (M62433AFP)
20	P82/INT2	I	Remote control data input terminal
21	P81/INT1	I	LED drive signal output terminal("L":OFF,"H":ON)
22	P80/INT0	O	Not used,open
23	P77/TA4IN/ TA2OUT/ CLK1	O	
24	P76/TA3IN/ TA1OUT/ CLK1		
25	P75/TA2IN/ TA0OUT/ RXD1	I	
26	P74/TA1IN/ YA4OUT/ TXD1	O	
27	P73/TA0IN/ TA3OUT	I	Connected to power supply through resistor
28	P72/TB2IN	O	Not used, open

Pin No.	Mark	I/O Division	Function
29	P71/TB1IN	I	Tuner reception detect input terminal
30	P70/TB0IN	O	Chip enable signal output terminal to IC501 (LC72722PMTLM)
31	P47/CST0/ RST0	O	Chip enable signal output terminal to IC102 (LC72131MDTLM)
32	P46/CXL0	O	Clock output terminal to IC501 (LC72722PMTLM)
33	P45/RXD0	I	Stereo input terminal from IC102 (LC72131MDTLM)
34	P44/TXD0	O	Data output terminal from IC102 (LC72131MDTLM)
35	P43/FLD51	I	Tuner signal detection input terminal from IC101 (LA1833MN-TLM)
36	P42/FLD50	I	Chip select input terminal
37 ~ 40	P41/FLD49 ~ P36/FLD46	I/O	FL segment control in/output terminal
41 ~ 54	P35/FLD45 ~ P20/FLD32	O	FL segment control output terminal
55 ~ 62	P17/FLD31 ~ P10/FLD24		
63	VCC	I	Power supply terminal
64	P70/FLD23	O	FL segment control output terminal
65	VSS	—	GND teminal
66 ~ 72	P06/FLD22 ~ P00/FLD16	O	FL segment control output terminal
73	P57/FLD15	O	FL segment control output terminal
74 ~ 80	P56/FLD14 ~ P50/FLD8	O	FL grid control output teminal
81 ~ 86	P67/FLD7 ~ P62/FLD2	O	FL grid control output terminal
87	P61/FLD1	O	FL grid control output terminal
88	P60/FLD0	O	FL grid control output terminal
89	VEE	I	Power supply termianl
90 ~ 92	P107/AN7 ~ P105/AN5	I	Key swich connect terminal
93	P104/AN4	O	Muting output terminal ("H": OFF, "L": ON)
94 ~ 96	P103/AN3 ~ P101/AN1	I	Key swich connect terminal from SE-HD505
97	AVSS	—	Connected to GND
98	P100/AN0	I	Key switch input terminal
99	VREF	I	Power supply terminal
100	AVCC		

13 Replacement Parts List

Note:

*Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*The parenthesized indications in the Remarks columns specify the areas.(Refer to the cover page for area.)

Parts without these indications can be used for all areas.

*The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly , and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)

*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHD30007-S	SCREW	4	
2	RGK0969-1S	SIDE PANEL(L)	1	
3	RGK0970-1S	SIDE PANEL(R)	1	
4	XTBS26+8J	SCREW	10	
5	RGL0391-Q	PANEL LIGHT(L)	1	
6	RGL0392-Q	PANEL LIGHT(R)	1	
7	XTBS3+8JFZ1	SCREW	9	
8	REZ1119	FFC(23P)	1	
9	RKM0363-1S	CABINET	1	
10	RKA0098-K	FOOT	4	
11	XTB3+5JFZ	SCREW	4	
12	XTB3+8JFZ	SCREW	1	
13	RKW0568-S1	FL WINDOW	1	
14	RGG0160B-S	FRONT PANEL	1	(E)
14	RGG0160C-S	FRONT PANEL	1	(PP)
15	REP2683A-S	LED(L R)P.C.B.	1	
16	RGP0698-S	SUB PANEL	1	
17	REZ1120	FFC(14P)	1	
18	RGU1602-1S1	BUTTON BAND	1	
19	RGW0302-S	KNOB TUNER/JOG	1	
20	XTB3+12JFZ	SCREW	4	
C101	ECBT1C103NS5	16V 0.01U	1	
C102	ECEA1CKS101	16V 100U	1	(E)
C102	RCE1CKA100BG	16V 10U	1	(PP)
C103	ECBT1C103NS5	16V 0.01U	1	
C104	ECBT1H102KB5	50V 1000P	1	
C105	ECBT1H102KB5	50V 1000P	1	(E)
C106	ECBT1C103NS5	16V 0.01U	1	
C107	ECBT1H473ZF5	50V 0.047U	1	
C108	ECBT1H8R2KC5	50V 8.2P	1	
C109	ECBT1H102KB5	50V 1000P	1	
C110	ECBT1C103NS5	16V 0.01U	1	
C111	ECEA1EKS4R7	25V 4.7U	1	
C112	ECBT1C103NS5	16V 0.01U	1	
C113	ECBT1H102KB5	50V 1000P	1	
C114	RCE1HKA3R3BG	50V 3.3U	1	
C115	ECEA1EKS4R7	25V 4.7U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C116	ECFR1C333KR	16V 0.033U	1	
C117,18	ECFR1C183KR	16V 0.018U	2	
C119	ECQP1391JZ	100V 390P	1	(E)
C119	ECQB1H561JF3	50V 560P	1	(PP)
C120	RCE1CKA100BG	16V 10U	1	
C121	RCE1HKAR47BG	50V 0.47U	1	
C122,23	ECEA1HKS010	50V 1U	2	
C124	ECBT1H101KB5	50V 100P	1	
C125	ECEA1CKS220	16V 22U	1	
C126	ECBT1H473ZF5	50V 0.047U	1	
C127	ECEA1CKS220	16V 22U	1	
C129,30	ECEA0JKS101	6.3V 100U	2	
C131	ECBT1H101KB5	50V 100P	1	
C132	ECBT1H102KB5	50V 1000P	1	
C133,34	ECBT1H270JU5	50V 27P	2	
C136	ECBT1H102KB5	50V 1000P	1	
C137	ECFR1E472KR	25V 4700P	1	
C138	ECBT1C103KS5	16V 0.01U	1	
C139	ECFR1E472KR	25V 4700P	1	
C141,42	ECEA1HKS010	50V 1U	2	
C143,44	ECBT1C472KR5	16V 4700P	2	
C147	ECBT1H102KB5	50V 1000P	1	
C148	ECBT1C103NS5	16V 0.01U	1	
C149	ECBT1H104ZF5	50V 0.1U	1	
C201-06	ECBT1H101KB5	50V 100P	6	
C209	ECBT1H102KB5	50V 1000P	1	
C301,02	RCE1CKA100BG	16V 10U	2	
C303,04	ECBT1H330J5	50V 33P	2	
C305,06	ECBT1H102KB5	50V 1000P	2	
C307,08	ECBT1E103ZF	25V 0.01U	2	
C309-13	RCE1CKA100BG	16V 10U	5	
C314	ECBT1H104ZF5	50V 0.1U	1	
C315-17	ECBT1H470J5	50V 47P	3	
C318	ECBT1H104ZF5	50V 0.1U	1	
C321,22	ECBT1H471KB5	50V 470P	2	
C323,24	ECBT1H102KB5	50V 1000P	2	
C325,26	RCE1CKA100BG	16V 10U	2	
C327,28	ECBT1H331KB5	50V 330P	2	
C329,30	RCE1CKA100BG	16V 10U	2	
C331,32	ECBT1H331KB5	50V 330P	2	
C333,34	ECBT1C332KR5	16V 3300P	2	
C335-38	ECQB1H103JZ	50V 0.01U	4	
C339-42	ECQV1H473JM3	50V 0.047U	4	
C343,44	ECQV1H224JM3	50V 0.22U	2	
C345,46	ECQB1H333JF3	50V 0.033U	2	
C347,48	ECQB1H223JF3	50V 0.022U	2	
C349,50	ECBT1H102KB5	50V 1000P	2	
C351	ECBT1H104ZF5	50V 0.1U	1	
C353-62	ECBT1H101KB5	50V 100P	10	
C363,64	ECBT1C103KS5	16V 0.01U	2	(PP)
C401,02	ECA1EM101	25V 100U	2	
C403,04	ECBT1E103ZF	25V 0.01U	2	
C405,06	RCE1AKA470BG	10V 47U	2	
C407,08	ECEA1CKS101	16V 100U	2	
C409,10	ECBT1E103ZF	25V 0.01U	2	
C411	ECEA1CKS101	16V 100U	1	
C413	ECA1EM101	25V 100U	1	
C414	ECEA0JKS101	6.3V 100U	1	
C415	ECBT1E103ZF	25V 0.01U	1	
C471,72	ECBT1H473ZF5	50V 0.047U	2	
C481	ECBT1C105ZF5	16V 1U	1	
C482	ECBT1H104ZF5	50V 0.1U	1	
C483,84	ECBT1H473ZF5	50V 0.047U	2	
C491,92	ECBT1H101KB5	50V 100P	2	
C493	ECEA1VKS470	35V 47U	1	
C501	ECEA0JKS101	6.3V 100U	1	(E)
C502	ECBT1E103ZF	25V 0.01U	1	(E)
C503,04	ECBT1H470J5	50V 47P	2	(E)
C505	ECBT1H561KB5	50V 560P	1	(E)
C506	ECBT1E103ZF	25V 0.01U	1	(E)
C507	ECEA0JKS101	6.3V 100U	1	(E)
C508	ECBT1H331KB5	50V 330P	1	(E)
C509	RCE1CKA100BG	16V 10U	1	(E)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C511	ECBT1E103ZF	25V 0.01U	1	(PP)
C512	ECBT1H101KB5	50V 100P	1	(PP)
C541	RCE1HKA3R3BG	50V 3.3U	1	
C701	ECUV1H104ZFN	50V 0.1U	1	
C702	ECUV1H180JCN	50V 18P	1	
C703	ECUV1H200JCN	50V 20P	1	
C704	ECEA1HKS2R2	50V 2.2U	1	
C705,06	ECUV1H104ZFN	50V 0.1U	2	
C707	RCE0JRC102BG	6.3V 1000U	1	
C708	ECUV1H103ZFN	50V 0.01U	1	
C709	RCE1CKA100BG	16V 10U	1	
C710	ECUV1H103ZFN	50V 0.01U	1	
C711,12	ECUV1H104ZFN	50V 0.1U	2	
C713	ECEA1HKS100	50V 10U	1	
C715,16	ECUV1H104ZFN	50V 0.1U	2	
C717-19	ECUV1H103ZFN	50V 0.01U	3	
C781,82	ECEA1HKS010	50V 1U	2	
C791	ECUV1H103ZFN	50V 0.01U	1	
C792	ECEA0JKS101	6.3V 100U	1	
CF201	RLFFETNGD01L	CERAMIC FILTER	1	(E)
CF201	RLFFETWN01DD	CERAMIC FILTER	1	(PP)
CF202	RLFFETMGD01L	CERAMIC FILTER	1	(E)
CF202	RLFFETWN01DD	CERAMIC FILTER	1	(PP)
CN101A	RJT100W07	CONNECTOR(7P)	1	
CN101B	RJU100W07	CONNECTOR(7P)	1	
CN102A	RJT100W07	CONNECTOR(7P)	1	
CN102B	RJU100W07	CONNECTOR(7P)	1	
CN103A	RJT057W007-1	CONNECTOR(7P)	1	
CN103B	RJU057W007	CONNECTOR(7P)	1	
CN104A	RJT057W007-1	CONNECTOR(7P)	1	
CN104B	RJU057W007	CONNECTOR(7P)	1	
CN105A	RJT057W007-1	CONNECTOR(7P)	1	
CN105B	RJU057W007	CONNECTOR(7P)	1	
CN701A	RJS1A6823	CONNECTOR(23P)	1	
CN701B	RJS1A6223-1	CONNECTOR(23P)	1	
CN702A	RJS1A6814	CONNECTOR(14P)	1	
CN702B	RJS1A6214-1	CONNECTOR(14P)	1	
CN703A	RJT066H05A	CONNECTOR(5P)	1	
CN703B	RJU066H05	CONNECTOR(5P)	1	
D101 ⚠	MA4051M	DIODE	1	
D301 ⚠	MA4051M	DIODE	1	
D401,02 ⚠	MA4075HTA	DIODE	2	
D403 ⚠	MA4082LTA	DIODE	1	
D404	MA185TA	DIODE	1	
D481-84	MA719TA	DIODE	4	
D491	MA4043M	DIODE	1	
D492	MA4051M	DIODE	1	
D511	MA165	DIODE	1	(PP)
D541,42	MA165	DIODE	2	
D701	MA111TX	DIODE	1	
D703,04	1SS380TE-17	DIODE	2	
D705	MA111TX	DIODE	1	
D706	1SS380TE-17	DIODE	1	
D711	MA111TX	DIODE	1	(PP)
D712	MA111TX	DIODE	1	
D713	MA111TX	DIODE	1	(E)
D791	UDZ2R0BTE-17	DIODE	1	
FL701	RSL0271-F	FL DISPLAY TUBE	1	
IC101	LA1833MN-TLM	IC	1	
IC102	LC72131MDTLM	IC	1	
IC301	M5218AFPE3	IC	1	
IC302	M62433AFP	IC	1	
IC501	LC72722PMTLM	IC	1	(E)
IC701	M30218MAA101	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK101	RJH5210M	ANTENNA	1	(E)
JK101	RJH5404M	ANTENNA	1	(PP)
JK201	SJF3069-20N	EXT OUT/IN	1	
JK401	RJT065K20	SYSTEM CONNECTOR(20P)	1	
JK402	RJT065K19	SYSTEM CONNECTOR(19P)	1	
L101,02	ELESNR68MA	COIL	2	
L103	ELEXTR47MA9	COIL	1	
L501,02	RLQA100JT-Y	COIL	2	(E)
L541,42	RLQA100JT-Y	COIL	2	
L701	RLBN300AV-W	COIL	1	
L702-06	RLBN601V-W	COIL	5	
L707	RLBN300AV-W	COIL	1	
PCB1	REP2592C-T	TUNER P.C.B.	1	(E)(RTL)
PCB1	REP2592B-T	TUNER P.C.B.	1	(PP)(RTL)
PCB2	REP2768F-M	MAIN P.C.B.	1	(E)(RTL)
PCB2	REP2768G-M	MAIN P.C.B.	1	(PP)(RTL)
PCB3	REP2769C-S	PANEL P.C.B.	1	(E)(RTL)
PCB3	REP2769D-S	PANEL P.C.B.	1	(PP)(RTL)
Q101	2SC2787FK	TRANSISTOR	1	
Q102	2SC2787FK	TRANSISTOR	1	(E)
Q106	UN4111	TRANSISTOR	1	
Q110	2SC3311AR	TRANSISTOR	1	(E)
Q301,02	2SC3311ATA	TRANSISTOR	2	
Q303	UN4115	TRANSISTOR	1	
Q401 ⚠	2SD2137PQTA	TRANSISTOR	1	
Q402 ⚠	2SB1417PQTA	TRANSISTOR	1	
Q403 ⚠	2SC3940AQSTA	TRANSISTOR	1	
Q405	DTB123YSTP	TRANSISTOR	1	
Q406	DTC114ESTP	TRANSISTOR	1	
Q407	2SC3311ATA	TRANSISTOR	1	
Q541,42	2SC3311ATA	TRANSISTOR	2	
Q543	DTC143XSTP	TRANSISTOR	1	
Q701	UN5214TX	TRANSISTOR	1	
Q702	2SD1819ATX	TRANSISTOR	1	
Q791	UN5214TX	TRANSISTOR	1	
Q792	2SB709ASTX	TRANSISTOR	1	
R102	ERDS2FJ472	1/4W 4.7K	1	
R103	ERDS2FJ101	1/4W 100	1	(E)
R103	ERDS2FJ271	1/4W 270	1	(PP)
R104	ERDS2FJ103	1/4W 10K	1	(E)
R104	ERDS2FJ102	1/4W 1K	1	(PP)
R105	ERDS2FJ471	1/4W 470	1	
R106	ERDS2FJ474	1/4W 470K	1	
R107	ERDS2FJ331	1/4W 330	1	
R108	ERDS2FJ474	1/4W 470K	1	(E)
R109	ERDS2FJ331	1/4W 330	1	(E)
R110	ERDS2FJ102	1/4W 1K	1	
R111	ERDS2FJ391	1/4W 390	1	
R112	ERDS2FJ104	1/4W 100K	1	
R113	ERDS2FJ103	1/4W 10K	1	
R114	ERDS2FJ562	1/4W 5.6K	1	
R115	ERDS2FJ561	1/4W 560	1	
R116	ERDS2FJ102	1/4W 1K	1	
R117	ERDS2FJ683	1/4W 68K	1	(E)
R117	ERDS2FJ473	1/4W 47K	1	(PP)
R118	ERDS2FJ332	1/4W 3.3K	1	
R119	ERDS2FJ103	1/4W 10K	1	(E)
R119	ERDS2FJ682	1/4W 6.8K	1	(PP)
R120	ERDS2FJ473	1/4W 47K	1	
R121	ERDS2FJ223	1/4W 22K	1	
R122	ERDS2FJ272	1/4W 2.7K	1	
R123	ERDS2FJ683	1/4W 68K	1	
R124	ERDS2FJ271	1/4W 270	1	
R125	ERDS2FJ471	1/4W 470	1	
R126	ERDS2FJ152	1/4W 1.5K	1	

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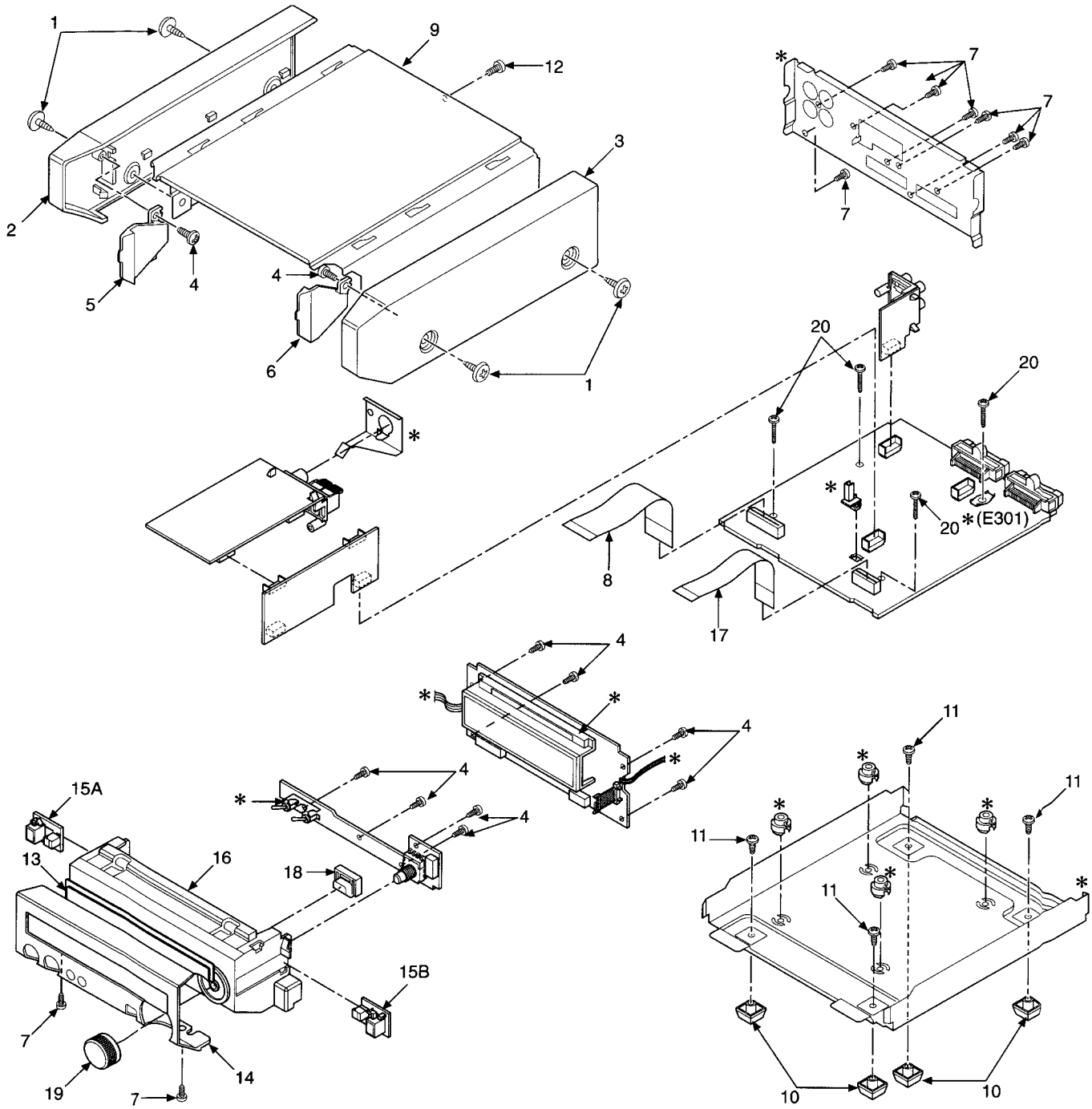
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R127	ERDS2FJ471	1/4W 470	1	
R128	ERDS2FJ820	1/4W 82	1	
R129	ERDS2FJ273	1/4W 27K	1	
R130	ERDS2FJ103	1/4W 10K	1	
R131	ERDS2FJ680	1/4W 68	1	
R132	ERDS2FJ103	1/4W 10K	1	
R133	ERDS2FJ102	1/4W 1K	1	
R134	ERDS2FJ471	1/4W 470	1	
R135-37	ERDS2FJ102	1/4W 1K	3	
R138	ERDS2FJ332	1/4W 3.3K	1	
R139	ERDS2FJ332	1/4W 3.3K	1	(E)
R140	ERDS2FJ472	1/4W 4.7K	1	(E)
R141,42	ERDS2FJ102	1/4W 1K	2	
R143	ERDS2FJ223	1/4W 22K	1	
R145,46	ERDS2FJ104	1/4W 100K	2	
R201,02	ERDS2FJ102	1/4W 1K	2	
R305,06	ERDS2FJ563	1/4W 56K	2	
R307,08	ERDS2FJ103	1/4W 10K	2	
R309,10	ERDS2FJ102	1/4W 1K	2	
R313,14	ERDS2FJ102	1/4W 1K	2	
R315,16	ERDS2FJ223	1/4W 22K	2	
R317,18	ERDS2FJ102	1/4W 1K	2	
R319,20	ERDS2FJ332	1/4W 3.3K	2	
R321	ERDS2FJ105	1/4W 1M	1	
R322	ERDS2FJ104	1/4W 100K	1	
R323	ERDS2FJ102	1/4W 1K	1	
R324	ERDS2FJ222	1/4W 2.2K	1	
R325	ERDS2FJ102	1/4W 1K	1	
R326	ERDS2FJ103	1/4W 10K	1	
R329-32	ERDS2FJ472	1/4W 4.7K	4	
R333,34	ERDS2FJ332	1/4W 3.3K	2	
R335,36	ERDS2FJ104	1/4W 100K	2	
R337,38	ERDS2FJ223	1/4W 22K	2	
R339,40	ERDS2FJ103	1/4W 10K	2	
R341,42	ERDS2FJ102	1/4W 1K	2	
R343,44	ERDS2FJ103	1/4W 10K	2	
R345,46	ERDS2FJ102	1/4W 1K	2	
R347,48	ERDS2FJ103	1/4W 10K	2	
R349,50	ERDS2FJ272	1/4W 2.7K	2	
R351,52	ERDS2FJ822	1/4W 8.2K	2	
R353,54	ERDS2FJ222	1/4W 2.2K	2	
R355,56	ERDS2FJ103	1/4W 10K	2	
R357,58	ERDS2FJ102	1/4W 1K	2	
R359,60	ERDS2FJ103	1/4W 10K	2	
R361,62	ERDS2FJ472	1/4W 4.7K	2	
R363,64	ERDS2FJ103	1/4W 10K	2	
R401,02 ⚠	ERD2FCJ4R7	1/4W 4.7	2	
R403,04	ERDS2FJ102	1/4W 1K	2	
R405 ⚠	ERD2FCG100	1/4W 10	1	
R406	ERDS2FJ102	1/4W 1K	1	
R407	ERDS2FJ221	1/4W 220	1	
R408-11	ERDS2FJ102	1/4W 1K	4	
R481,82	ERDS2FJ101	1/4W 100	2	
R491,92	ERDS2FJ151	1/4W 150	2	
R493	ERDS2FJ103	1/4W 10K	1	
R501-03	ERDS2FJ102	1/4W 1K	3	(E)
R504	ERDS2FJ101	1/4W 100	1	(E)
R505	ERDS2FJ332	1/4W 3.3K	1	(E)
R507	ERDS2FJ101	1/4W 100	1	(E)
R509	ERDS2FJ101	1/4W 100	1	(E)
R511	ERDS2FJ472	1/4W 4.7K	1	(PP)
R512	ERDS2FJ104	1/4W 100K	1	(PP)
R513	ERDS2FJ223	1/4W 22K	1	(PP)
R530	ERDS2FJ473	1/4W 47K	1	
R541	ERDS2FJ473	1/4W 47K	1	
R542,43	ERDS2FJ472	1/4W 4.7K	2	
R544	ERDS2FJ223	1/4W 22K	1	
R545-47	ERDS2FJ103	1/4W 10K	3	
R548	ERDS2FJ331	1/4W 330	1	
R549,50	ERDS2FJ103	1/4W 10K	2	
R551,52	ERDS2FJ102	1/4W 1K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R601	ERJ6GEYJ122V	1/10W 1.2K	1	
R602	ERJ6GEYJ102Z	1/10W 1K	1	
R603	ERJ6GEYJ821V	1/10W 820	1	
R701	ERJ6GEYJ102Z	1/10W 1K	1	
R702	ERJ6GEYJ103V	1/10W 10K	1	
R703	ERJ6GEYJ104V	1/10W 100K	1	
R704	ERJ6GEYJ101V	1/10W 100	1	
R705-07	ERJ6GEYJ102Z	1/10W 1K	3	
R708	ERJ6GEYJ824V	1/10W 820K	1	
R709-11	ERJ6GEYJ102Z	1/10W 1K	3	
R712	ERJ6GEYJ103V	1/10W 10K	1	
R713-15	ERJ6GEYJ102Z	1/10W 1K	3	
R716-18	ERJ6GEYJ331V	1/10W 330	3	
R719,20	ERJ6GEYJ102Z	1/10W 1K	2	
R721	ERJ6GEYJ153V	1/10W 15K	1	
R722-24	ERJ6GEYJ102Z	1/10W 1K	3	
R725	ERJ6GEYJ101V	1/10W 100	1	
R726,27	ERJ6GEYJ331V	1/10W 330	2	
R728,29	ERJ6GEYJ102Z	1/10W 1K	2	
R730	ERJ6GEYJ103V	1/10W 10K	1	
R733	ERJ6GEYJ101V	1/10W 100	1	
R734	ERJ6GEYJ104V	1/10W 100K	1	
R735-37	ERJ6GEYJ102Z	1/10W 1K	3	
R738	ERJ6GEYJ101V	1/10W 100	1	
R739-42	ERJ6GEYJ102Z	1/10W 1K	4	
R743-51	ERJ6GEYJ103V	1/10W 10K	9	
R752-57	ERJ6GEYJ102Z	1/10W 1K	6	
R758,59	ERJ6GEYJ101V	1/10W 100	2	
R760	ERJ6GEYJ102Z	1/10W 1K	1	
R781,82	EXBZ10E104J	COMPONENT COMBINATION	2	
R791	ERJ6GEYJ103V	1/10W 10K	1	
R792	ERJ6GEYJ680V	1/10W 68	1	
RJ601	ERJ8GEY0R00V	CHIP JUMPER	1	
RJ704,05	ERJ8GEY0R00V	CHIP JUMPER	2	
S601,02	RST2A001-2D	SW STOP/TUNE MODE	2	
S603-05	EVQ21405R	SW PUSH	3	
VR601	EVQVENF0124B	V.R TUNE JOG	1	
X102	RLFDFT13DD	OSCILLATOR	1	
X103	RSXC7M20S05T	OSCILLATOR	1	
X501	RSXC4M33S02T	OSCILLATOR	1	(E)
X701	RSXY10M0M01T	OSCILLATOR	1	
X702	RSXD32K7S05	OSCILLATOR	1	
Z101	RLA2Z006M-T	COMPONENT COMBINATION	1	
Z102	RLI2Z022M-T	COMPONENT COMBINATION	1	
Z120	RAL0035	FM FRONT END	1	(E)
Z120	RAL0006	FM FRONT END	1	(PP)
Z701	RCDGP1U28XD	REMOTE SENSOR	1	

14 Cabinet Parts Location



Note: We do not supply those items of parts marked *.

Ref. No.	Part No.	Part Name & Description	PCS	Remarks
1	RHD30007-S	SCREW	4	
2	RGK0969-1S	SIDE PANEL(L)	1	
3	RGK0970-1S	SIDE PANEL(R)	1	
4	XTBS26+8J	SCREW	10	
5	RGL0391-Q	PANEL LIGHT(L)	1	
6	RGL0392-Q	PANEL LIGHT(R)	1	
7	XTBS3+8JFZ1	SCREW	9	
8	REZ1119	FFC(23P)	1	
9	RKM0363-1S	CABINET	1	
10	RKA0098-K	FOOT	4	
11	XTB3+5JFZ	SCREW	4	

Ref. No.	Part No.	Part Name & Description	PCS	Remarks
12	XTB3+8JFZ	SCREW	1	
13	RKW0568-S1	FL WINDOW	1	
14	RGG0160B-S	FRONT PANEL	1	(E)
14	RGG0160C-S	FRONT PANEL	1	(PP)
15	REP2683A-S	LED(L R)P.C.B.	1	
16	RGP0698-S	SUB PANEL	1	
17	REZ1120	FFC(14P)	1	
18	RGU1602-1S1	BUTTON BAND	1	
19	RGW0302-S	KNOB TUNER/JOG	1	
20	XTB3+12JFZ	SCREW	4	

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